

# AGI Conference papers by subject

The AGI Conference papers cover a broad spectrum of applications and subjects. To assist locate an AGI conference paper of interest by application or subject the following keywords have been used to produce the following applications and subjects lists from the full list of AGI conference papers.

Address management	Land information services and systems
Aerial photography	Local government
Benefits	Location based services
Case studies	London
Coastal zone	Market analysis, marketing
Crime & disorder	Meta data
Data accuracy, integrity and quality	Modernising government
Data capture	Northern Ireland
Data infrastructures	Photogrammetry
Demographic applications	Professional development, CPD, ethics
Education and training	Remote sensing
Emergency services	Rural, farming, agriculture
England	Scotland
Environmental applications	Standards
Europe	Technology
Health	Utility applications
Integration	Wales
Internet, Intranet, World Wide Web	

Once a paper has been identified the full details to locate the paper of interest can be obtained by consulting the full list of AGI Conference papers using the author(s) as the key to locate the entry.

### Address management

Brewer A & Shepherd J	Post codes as a Geographic Database: Added Value and Added Analysis
Capell P J & Singh G	London Area Transport Survey: Automated Address Coding
Denness I	Robbers, rozzers and raster: mapping crime and disorders
Dunlea M	The use of GIS in Mobilising Irish Emergency Services – the C.A.M.P. Experience
Elliott L, McCallum D & Pretty S	Address-Point: Fusion of OS Mapping Precision and Royal Mail Postal Addresses
Hooper B D	GIS and the customer
Hulme G	The development of a land and buildings database at Kensington and Chelsea
Martin D	GIS in the 2001 Census
Monkhouse A	GIS in strategic planning: an Ayrshire perspective
Neffendorf H, Ramsey B, & Walker N	Address matching and geocoding for major surveys
Odom A	GIS in NHS: a user's perspective
Rackham L J	Surveying the Address
Simmons D	Issues and solutions in the analysis of natural hazards in Europe and Japan
Sinclair N	Selecting Locational Referencing Methods for GIS
Steel C & Goad K	Address Matching – The Westminster Experience

### Aerial photography

Azizi A, Clark M J & Davenport J	Air Photo or Video Inputs to Vector or Raster GIS
Bird A C	GIS Based Data on Land cover Change in the National Parks of England and Wales
Cassettari S	Using Aerial Photography in your GIS
Davies H	The use of aerial photography by local London authorities
Gugan D J	Photogrammetry and GIS
Jones A & Plante S	Reducing the exposure to risk: the role of digital imagery
Koh A & Edwards E	Integrating GPS data with fly-on-demand digital imagery for coastal zone management
Miller D R, Aspinall R J, Finch P & Fon T C	A model of DEM and orthophotography quality using aerial photography
Miller D R, Gauld J H, Bell J S & Towers W	Land Cover Changes in the Cairngorms
Morley K	Digital Imagery comes of age
Waters R	Air Photos to GIS, do we need the map?

### Benefits

Alla P & Trow S W	Implementation of a GIS - A way to optimising utilities operations
Bainbridge P, Hinton P & Curry D	GIS: Unlocking the Benefits by Implementing Applications
Bartlett R	Problems and benefits of developing European-wide datasets
Callaghan J G	GIS - Increasing business efficiency and profit
Camidge P & Mathews J	First steps up the Strategic staircase: A quick, low risk path to GIS
Cane S	Adding Corporate Value to Data – a sugGIStion
Capell P J & Singh G	London Area Transport Survey: Automated Address Coding
Christie R	Building a new geospatial infrastructure: the future Ordnance Survey product portfolio
Cima J	Enhancing Network Analysis for Water Utilities
Cooke I	Chameleon in the Field The Benefits of Configurability
Corbin C E H	GIS: A Catalyst for Data Integration
Coulson M G	Methodologies for Assessing cost and value of GIS
Cross D	How to populate your GIS Database, on budget and on time
Dean A	Collaboration in systems integration
Douglas A & Hoult C	Turning Data into Knowledge – and Knowledge into Business Advantage
Drake P	The use of different Data Conversion options for a GIS application in the Water Industry

## AGI papers by subject

England J	Unlocking the Corporate GIS door
Fraser S	GIS: Geographic Information sorted!
Gadd S	GIS - Forging a Key Role in Data Integration
Grimshaw D J	The Transformation of Customer Databases
Grimshaw D J	A survey of GIS use in the business sector
Gross H	Very Clever....but does it really mean anything?
Ives M	Reaping the Benefits
Kennie T & Mather P	Do GIS Specialists need the Professional Institutions?
Knott J & Shiers D	Mobile Maps – Sending vector map based maps across radio networks for use in unplanned locations by GIS Users
Legg S	Benefits of RAD methodology for GIS projects
Litton D	GIS in action in Local Government - The benefits of partnerships
Maguire D J, Kimber B & Laming R	A Corporate Map Server!
Markham R & Rix D	Local Land Charges Corporate Application or Corporate Report?
May K, Standen P & Taylor A	GRIDLINK: the new standard for postcode and grid reference data
Mckeown M	Survey assessment: made easy and add value
McMillan R & Williams D S	Reaping the Benefits of a GIS System
Musgrave T & Flack J	1000 years of ownership: registering the City of Bristol
Palmer B D	GIS or GIM?
Peacock D & Rutherford I	Concepts into reality: An Account of a GIS Implementation in the South Western Electricity Board
Purvis J	GIS – Moving Outside the Square
Reid E	Machiavelli and Data
Roberts J	The Hertsmere Experience
Sheath N	Geography – A Corporate Resource
Slater A & Slights D	Telecommunications - the benefits of subscribing to a Smallworld GIS
Snoxell J D	GIS - Satisfying business needs
Timms T	Relationships and Behaviour in GIS
Todd P	Cost-benefit – The Solution
Walker J C & Hampson E	When the wind blows the GIS will be used
Waller R	GIS – A Cost Benefit study
Weatherill D & Keddie J	Building a Financial Case for GIS
Webb G & Todd P	Identifying GIS Benefits in the Regional Electricity Companies
Winter P	Selling a Corporate GIS
Winterkorn E	Local Authority GIS Usage in England, Scotland and Wales

### Case Studies

Adnitt N C	Number 1 in the charts, Yorkshire Water GIS, now available on CD
Alla P & Trow S W	Implementation of a GIS – A way to optimising utilities operations
Andrews D E, Hartley W S & Walter J	GIS and ROMANSE – Integrating Traffic Systems
Annand K & Hookham C	A GIS Strategy for guarding the water environment
Arnott D & Keddie A R	Data Capture – The Standards and Procedures Utilised within Northumbrian Water Group
Atkinson R	GIS: A catalyst for positive change
Bainbridge P, Hinton P & Curry D	GIS: Unlocking the Benefits by Implementing Applications
Boxer A	IS Government different?
Brown N, Gerrard F & Parr T	Defining English Chalk and Limestone Grassland areas using GIS
Bundred P, Hirschfield A & Marsden J	GIS in the Planning of Health Services in a District Health Authority
Burkmar R J, Petch J R, Basden A & Yip J	Integrating GIS and Knowledge-based systems for Landscape Management
Campbell H & Masser I	Implementing GIS: The Organisational dimension
Capell P J & Singh G	London Area Transport Survey; Automated Address Coding
Chell M	Patterns of energy use and air pollution

Clegg P	GIS Implementation – The Sheffield Experience
Dale P	GIS in property management – strengths, weaknesses, opportunities and threats
Dunn R, Whitelegge M, Barr M, Swanwick C & Warnock S	The use of GIS in landscape classification: A case study of Southwest England
Elliott L, McCallum D & Pretty S	Address-Point: Fusion of OS Mapping Precision and Royal Mail Postal Addresses
Ellis S	How not to use the 1991 Census
Farrell B	Corporate GIS in a Scottish Regional Council
Flowerdew R, Green M & Lucas S	Analysing Local House Price Variations with GIS
Gadd S	Training for Effective Implementation. Are we getting it right?
Godlement H J R	Managing the Geographic Information
Haines-Young R	GIS for Environmental Planning: Problems and Prospects
Hall J, Ulyyett J, Hornung M & Hancock S	Using GIS for mapping the sensitivity of fresh waters to acidification
Hartley J C, Homer I R, Trow S, Hinton P H & Everett C	Inter Utility Exchange of Electronic Map Based Records in the North East of England
Hawker L & Goodwin R	The Computerised Street Works Register – Streets ahead?
Homer A R & Watson M	Integrated Data Saves Money!!
Howes D A, Green M & Kurtz T	Issues in the assessment of rural deprivation in England
Ives M	Reaping the Benefits
Kawalek J P	Information Systems and the use of multi-media in the water industries
Keddie J G & Docherty E	GIS and the 1991 Census as a cohesive force in Local Government
Kelly D & Hilder D	Mapping the Isle of Man
Lang N	Why reinvent the Wheel? Solutions using off-the-shelf GIS
Leggett D & Dowie P J	Avoiding deep water - getting the job done with GIS?
Lloyd J	Is Data Modelling Enough?
Longley P, Batty M, Shepherd J & Sadler G	On the use of Digitized Boundaries of Urban Areas in the Spatial Analysis of Settlements: The Case of South East England
Lukes D & Vann P	Practical Implementation issues in a multi-function organisation
Manthorpe J & Beardsall T	Land Information and the Land Register
Matthews S A	GIS Methodology and Spatial Statistics: The potential for Epidemiological Study
McMillan R & Williams D S	Reaping the Benefits of a GIS System
Meaden G J	Fishing for a marine GIS or how the world's first marine fisheries GIS might be implemented
Miller D R, Aspinall R J, Morrice J G & Ferrier R	Data Models for Environmental Applications
Miller D R, Morrice J G, Horne P L & Aspinall R J	Analysis of Landscape views for visual impact
Mitchell I	Corporate GIS – Do the Real Users get the systems they want?
Moore A	GIS Implementation in Local Government - the central approach
Murray D & Dixon P	GIS in Archaeological Survey
Newman B	Developing a Major GIS Project
Parsons E	Virtual Worlds Technology: The Ultimate GIS Visualisation Tool?
Peacock D & Rutherford I	Concepts into reality: An Account of a GIS Implementation in the South Western Electricity Board
Pitticas N	Land Value Information Unit. The Scottish NLIS?
Pritchard M & Benson L	Geographical Information Systems and the NHS Internal Market
Rickman D	Pleiades – Evaluating the use of GIS for a planning traffic corridor between London and Paris
Robbins R	The Automobile Association - European Relationships and Activities
Smith P J	Instant Access to Land Registry Data – Now a Reality
Snoxell J	Portable GIS in the Water Industry – Dealing with HAUC
Stringer P & Haslett J	Exploratory, Interactive analysis of spatial data: an illustration in the area of health inequalities

## AGI papers by subject

Swainston R	Integration of data within GIS - A case study in the Metropolitan Borough of Dudley, West Midlands
Trevor I & Russell D J	Data Capture - in weeks not years
Vipond D L & Harvey R A	Gluing GIS into the System Integration environment
Walker J C & Hampson E	Integrating GIS with the Network using ISDN
Waller R	GIS - A Cost Benefit study
Wallwork P & Goodwin R	The Computerised Street and Road Works Register - Sharing Information
Watts C D	Implementation of a 4-D GIS at a Utility Company
Weatherill D & Keddie J	Building a Financial Case for GIS
Wiseman P G	Suffolk County Council's corporate GIS pilot study
Witten A P, Peacock B & Jacobs R	The Role of GIS in managing corporate data within Northeast Water's System architecture
Wood T R	Experience of an operational GIS in the Water Industry
Wren G & MacKenzie R	Deadline Oriented GIS - Task Specific

### Coastal zone applications

Deakin R, Neve P & Stileman M	Coastal flood modelling for risk analysis
Green D R	Internet, the WWW and Browsers: The basis for a Network-based Geographic Information (GIS) for Coastal Zone Management
Koh A & Edwards E	Integrating GPS data with fly-on-demand digital imagery for coastal zone management
Pater C	The potential contribution of a GIS decision support mechanism on management and geotechnical appraisals in the coastal zone
Sheehan R	Coastal Zone Management is okay but it's not as good as the real thing!
Stileman M	Remotely Sensed Data: Complementing GIS Analysis in the Coastal Zone

### Crime & disorder

Chainey S	The importance of geography: better information for tackling social exclusion
Clegg M & Robson M	Computer graphics and Geographic Information Systems Technology in Police Operations
Cross A & Openshaw S	Crime Pattern Analysis: The development of ARC/CRIME
Denness I	Robbers, rozzers and raster: mapping crime and disorders
Doyle S, Morris C, MacLean A & Allison G	Using Geographic Information Systems for Crime Auditing and Analysis
Groff E	Impacting U.S. Local Criminal Justice Policy from the National Level
Law H	From action to outcome of the Safer Cities Programme
Lewis-Brown G	Intranet GIS for informed policing: better decisions informed by better data
Openshaw S, Cross A, Charlton M, Brunnsden C & Lillie J	Lessons learnt from a Post Mortem of a failed GIS
Plante S	Mapping crime for insurers - new techniques using statistical modelling
Stoneman P	Geographic Information Systems in the Metropolitan Police Service
Woodhouse T, Todd P & Hilder D	Possibilities for Force-Wide Geographic Information Systems in West Yorkshire Police

### Data accuracy, integrity and quality

Abel R	DEAL - A Web-based Digital Energy Atlas and Library
Antenucci J C	20 - 20 Hindsight: Or if I had to do it again
Arnott D & Keddie A R	Data Capture - The Standards and Procedures Utilised within Northumbrian Water Group
Asabere R K, Durucan S & Owen D B	An Expert System for Application of Geographical Information Systems in Mineral Resources Management
Ashton G	Partners in Progress - The Open cast Experience
Askew D, Matthews R & Swanton P	Great Expectations

Aspinall R J	A Landscape Ecological Approach to Mapping Distribution and Abundance of Birds with GIS
Bond R	Roles for GIS in mobile communications
Boocock C & Havercroft M	Quality assurance by Ordnance Survey of its topographic database revision
Buchanan H	Impact of European standards in geographic information
Burns S	Desktop Mapping: The Avon Experience Lessons Learnt
Burrough P A	Accuracy issues for future GIS
Clegg P	GIS Implementation - The Sheffield Experience
Coote A M & Rackham L J	Handling Update: Issues in Spatial Data Maintenance
Cruddace P	What will a combined GPS and GLONASS solution mean for your field data capture?
Devereux B & Mayo T	In the Foreground: Intelligent Techniques for Cartographic Data Capture
Dodson A H & Basker G A	GPS: GIS Problems Solved?
Ferris N & Wheeler S	Catchment Management Planning in Northern Ireland
Grimshaw D J	A survey of GIS use in the business sector
Heal A	GIS across Orange – Marketing to Engineering to Customer Care
Hooper B D	GIS and the customer
Hosken E & Parker D	Civil Engineers need Geographic Information
Land N	The Classification of Spatial Data - A proposal for a National Standard
Langford M & Fisher P	Measuring the accuracy of cross areal population estimates
Leaman S & Pool G	Practical experience in managing data quality
Lewis-Brown G	Intranet GIS for informed policing: better decisions informed by better data
Lindsay P A	Quality data teams
Lloyd J	Is Data Modelling Enough?
Logan I	Accuracy in the real world - or absolute accuracy is only relative
Logan I	Building a new geospatial infrastructure: positioning and data implications
Miller D R, Aspinall R J, Finch P & Fon T C	A model of DEM and orthophotography quality using aerial photography
Mountain D & Raper J	Designing geolocation services for next generation mobile phone systems
Parker D & Buchanan H	Geographic Information content and quality: Guidelines for those new to geographic information
Paschoud J & Bell A	Quality GIS Applications – Easier said than done?
Peart I	Managing information...managing what?
Reid E	Machiavelli and Data
Rowley J R	Standards – A key building block of Geographic Information Strategy?
Shapiro J	Stability and accuracy: a new challenge facing users of 3rd party data in the coming decade
Sian A J & Xavier R L	Integrating Data Derived from within the British Local Government Institutional Framework
Taylor N	The Third Dimension – Who Needs it?
Thurstain-Goodwin M & Hall S	‘STATISTICS’ coming to a town near you
Vicars D	Modelling Generalisation
Walker R S	Standards for GIS Data
Walker R S	Data quality standards
Woodcock M E & Clennell R	Can I Use a Digitising Bureau?
<b>Data capture</b>	
Adnitt N	Data Capture – The Technology, The Issues
Arnott D & Keddie A R	Data Capture – The Standards and Procedures Utilised within Northumbrian Water Group
Aybet J, Martin J & Taskis D	Protecting investment by capturing asset data from existing systems
Azizi A, Clark M J & Davenport J	Air Photo or Video Inputs to Vector or Raster GIS
Clegg P	Basic Issues in Data Capture

## AGI papers by subject

Cooke I C	Field Data Capture with Pen Computers
Cory M J	Portable Data Capture
Cross D	How to populate your GIS Database, on budget and on time
Cruddace P	What will a combined GPS and GLONASS solution mean for your field data capture?
Devereux B & Mayo T	Task Oriented Tools for Cartographic Data Capture
Devereux B & Mayo T	In the Foreground: Intelligent Techniques for Cartographic Data Capture
Dixon P, Smallwood J & Dixon M	Development of a mobile GIS: Field data capture using a pen based note pad computer system
Gray T	Advanced Methods of Capturing and Using GIS Data in the Field
Halls P J	Video for Capture of Paper Material - Worthless for Some but Useful for Others?
McAdam D	Mustang 2: The Silk Road
McAusland S & Summerside A	First Steps to Success
Medyckyj-Scott D	User and organisational acceptance of Geographical Information Systems: The route to failure or success
Platt P G	Developments in Scanning, Application & Compression of Colour Raster Data
Raper J, McCarthy T & Livingstone D	Interfacing GIS with Virtual Reality Technology
Roberts P, Beetlestone S & Ashton L	Moving Common Land Management into the Digital Arena
Sheehan R	The UK Digital Marine Atlas Project and Issues in Data Capture
Simmons G	Photogrammetric data capture for GIS datasets
State R	A practical application of data capture techniques
Thomas J	Picking the Perfect Peripheral
Trevor I & Russell D J	Data Capture - in weeks not years
Vipond D L & Harvey R A	Gluing GIS into the System Integration environment
Webb H	The Digitising Table - Is there a viable alternative?

### Data infrastructures

Barr R	From NLIS to joined-up Geography
Barr R & Roper C	Building a National Infrastructure for Geographical Referencing – A commentary
Beasley C	Access to geospatial data: will the National Geospatial Data Framework make a difference?
Christie R	Building a new geospatial infrastructure: the future Ordnance Survey product portfolio
Craglia M & Signoretta P	The development of local Geographic Information infrastructures in the UK
Elliot L	Unlocking Geospatial Information? – ask Giraffe for the key
Gannon P J	Managing Infrastructure Impacts
Glover J	OPEN GIS - Removing the barriers to a spatial data infrastructure
Gould A	The global information infrastructure: protection, exploitation and legislation
Kok B C & Chenez C J A	Putting EGII (European Geographic Information Infrastructure) in a wider context
Logan I	Building a new geospatial infrastructure: positioning and data implications
Macdonald A	NGDF – boring acronym or users' opportunity?
McLaren R & Allbrook W	AGI Survey 1998
Murray K	Anticipating trends in geospatial data applications - research developments at Ordnance Survey
Murray K	Ordnance Survey and the N issues
Murray K	Building a new geospatial infrastructure: The Digital National Framework
Murray K	Building a new geospatial infrastructure: What does the Digital National Framework mean to its customers?

### Demographic applications

Duckenfield A	Can sample surveys enhance geodemographic databases?
Dugmore K	1991 Census: Outputs and Opportunities
Edwards S	The critical value of location to customer relationship

Ellis S	How not to use the 1991 Census
Green P	GIS for Market Analysis
Howes D A, Green M & Kurtz T	Issues in the assessment of rural deprivation in England
Keddie J G & Docherty E	GIS and the 1991 Census as a cohesive force in Local Government
Langford M & Fisher P	Measuring the accuracy of cross areal population estimates
Morris C	Lifestyle Data in GIS - Treating Consumers as Individuals
Puckey J	Census geography in the year 2000
Rae J	A Europe-wide marketing GIS
Tear A & Marshall A	Taking CACI's Area Data Service to the Internet: A Learning Experience
Todd P, Bundred P & Brown P	The Demography of Demand for Oncology Services: A Health Care Planning GIS Application
Tyler J	British Rail and its passengers: How Geographic Information could bring them closer together

### Education and training

Antenucci J C	20 - 20 Hindsight: Or if I had to do it again
Baxendale H & Saad L A A	A Geographical Information System for the Natural Resources Authority, Amman, Jordan
Blakemore M	UK Education and Research in GIS. A Selective Review
Browne T	Teaching through Training?
Buchanan H	A Young Professional's View of the GIS Industry
Buxton R & Ball C E	Geographic Information and the Expert System in Local Authority Development Control
Cassettari S	Introducing GIS into the National Curriculum for Geography
Clark M J	GIS Awareness: The Technical and Educational Challenge
Crowder J	GIS – Engineering or Science?
Dirdal P	A Vendor's Perspective of the Chorley report four Years On
Freeman D	Development of an Educational GIS for the National Curriculum
Gadd S	Training for Effective Implementation. Are we getting it right?
Gill S & Roberts P	GIS – the next generation: every high school in Powys joins the corporate GIS community
Gittings B & Mounsey H	GIS and LIS Training in Britain: The present situation
Green D R & McEwen L J	GIS as a component of Information Technology courses in Higher Education: Meeting the requirements of employers
Hernandez T & Bennison D	Selling GIS to retailers: Organisational Issues in the use of Geographical Information Systems
Heywood D I & Petch J R	GIS: A Toybox Approach
Hosken E & Parker D	Civil Engineers need Geographic Information
Ives M J & Hartley J C	Management of the Implementation of a Digital Records Systems
Jackson J	GIS for LEAs
Jones R J A, Bradley R I & Siddons P A	A Land Information System for environmental risk assessment
Kemp K K	GIS Education Around the World: Year Three of the NVCGLA Core Curriculum Project
Langford M & Strachan A J	Getting Started in GIS: Cost Effective Solutions and Academic Support
Lawrence V & Parsons E	GIS in disguise: improving decision-making with geography
Linsey T & Woods A	GIS Education – The Kingston Way
Maguire D J	GIS Employment: Matching supply and Demand
McCall S	The implementation of a corporate GIS in South Ayrshire Council
Raper J & Green N	GIST: A new approach to a Geographical Information System Tutor
Raper J & McCarthy T & Williams N	Integration of real-time GIS data with web-based virtual worlds
Shepherd I D H	Meeting the design challenge of Multi-Sensory GIS
Sommerfeld P	Unlocking the strategic power of the Mayor & the Greater London Authority



## AGI papers by subject

- Sommerfeld P, Corbin C E H & Mansell J  
Unwin D & Dale P  
Willis J
- Raising GI awareness through partnerships  
An Educationalist's view of GIS  
The need for skilled staff
- Emergency services**
- Deakin R & Diment R P  
Dunlea M  
Large C  
Tarabanis K & Tsionas I  
Walker J C & Hampson E  
Walker J C & Hampson E
- Emergency Services  
The use of GIS in Mobilising Irish Emergency Services - the C.A.M.P. Experience  
The application of GIS in fire-fighting incident command and control  
Emergency planning: estimating service level of safe areas for the case of an earthquake  
When the wind blows the GIS will be used  
Integrating GIS with the Network using ISDN
- England**
- Bird A C  
Clark M J, Ball J H & Gatward J  
Dunn R, Whitelegge M, Barr M, Swanwick C & Warnock S  
Hartley J C, Homer I R, Trow S, Hinton P H & Everett C  
Howes D A, Green M & Kurtz T  
Longley P, Batty M, Shepherd J & Sadler G  
Lyons H  
Manthorpe J  
Winterkorn E  
Zaba B
- GIS Based Data on Land cover Change in the National Parks of England and Wales  
Costing the Impact of Sea-level rise: A GIS solution for the South Coast of England  
The use of GIS in landscape classification: A case study of Southwest England  
Inter Utility Exchange of Electronic Map Based Records in the North East of England  
Issues in the assessment of rural deprivation in England  
On the use of Digitized Boundaries of Urban Areas in the Spatial Analysis of Settlements: The Case of South East England  
Assessing the scope for popular production across England and Wales  
Developments in the Land Register for England and Wales and the future national land information system  
Local Authority GIS Usage in England, Scotland and Wales  
Digital ground water vulnerability mapping for England and Wales
- Environmental applications**
- Alker S & Clayton D  
Allen M, Schumacher C & Kutz A  
Atkinson R  
Bastin L, Fisher P, Hughes M & Wood J  
Baxendale H & Saad L A A  
Bowley J J  
Brand M J D & Mitchell G  
Brown N  
Brown N, Gerrard F & Parr T  
Brown R, Slater J & Askew D  
Chell M  
Clark M J, Ball J H & Gatward J  
Crumpton C  
Devereux B J, Devereux L S, Fuller R M, Smith G M & Wilkinson P J  
Doig J, Atkinson R & Taylor M  
Ferris N & Wheeler S
- Sustainable land use planning for brownfield sites  
The Use of GIS in the Environmental Assessment of the WW2 Mustard Gas Factory at Ergethan in the former East Germany  
GIS: A catalyst for positive change  
FLIERS: making fuzzy sets usable in GIS  
A Geographical Information System for the Natural Resources Authority, Amman, Jordan  
The Application of Diverse Geo-Spatial Information into Fused Products for use by Military commanders: A case study  
CORINE Land Cover (Ireland) – The Northern Perspective  
The AGI Environmental Special Interest Group  
Defining English Chalk and Limestone Grassland areas using GIS  
Environmental Monitoring of Protected Landscapes - monitoring environmentally sensitive areas using satellite imagery, within GIS  
Patterns of energy use and air pollution  
Costing the Impact of Sea-level rise: A GIS solution for the South Coast of England  
Environmental GIS for the Petrochemical industry  
'RESOLUTION-E': Exploiting earth observation data for environmental impact assessment in an integrated GI framework  
Turning Public Registers into Public Information  
Catchment Management Planning in Northern Ireland

Fraser S	GIS: Geographic Information sorted!
Gannon P J	Managing Infrastructure Impacts
Gibbs D F, Clegg P E & Cross D A	Geographical Information Systems and Contaminated Areas: Finding things again and cleaning them up
Green D R	Internet, the WWW and Browsers: The basis for a Network-based Geographic Information (GIS) for Coastal Zone Management
Green D R & Morton D	Acquiring Environmental Remotely Sensed Data from Model Aircraft for Input to Geographic Information Systems
Haines-Young R	GIS for Environmental Planning: Problems and Prospects
Haines-Young R H, Bunce R G H & Parr T W	Countryside Information System
Hall J, Ulyett J, Hornung M & Hancock S	Using GIS for mapping the sensitivity of fresh waters to acidification
Harrison A, Dunn R & Turton P	Environmental GIS: Technology, Data and Policy
Henderson D, Anthony S, Mitchell R & Turner S	Managing the environment using GIS
Holden N & Butcher P	Catchment mapping and monitoring
Holmgren P	Precision forestry
Jones R J A, Bradley R I & Siddons P A	A Land Information System for environmental risk assessment
Kennedy P J, Nathanail C P, Abbachi A & Martin I D	Impact of spatial distribution of land contamination on property investment appraisal
Kidner D B	GIS for environmental impact assessment: an illustrated example
Leggett D & Dowie P J	Avoiding deep water - getting the job done with GIS?
Meaden G J	Fishing for a marine GIS or how the world's first marine fisheries GIS might be implemented
Miles A R, Anthony S G & Askew D	A comparison of Agricultural Lands Use and ENVIRONMENTAL Landcover data
Miles D R, Brown N J, Swetnam R D, Armstrong A C, Rose S C & Mountford J O	A wetlands GIS: the Aid to Management Policies
Miller D R, Aspinall R J, Morrice J G & Ferrier R	Data Models for Environmental Applications
Miller D R, Morrice J G, Horne P L & Aspinall R J	Analysis of Landscape views for visual impact
Mills D	The Role of GIS in Safeguarding the Water Environment
Monkhouse A	GIS in strategic planning: an Ayrshire perspective
Nathanail P & Rosenbaum E I M	Spatial Interpolation in GIS for environmental studies
Ovadia D C & Loudon T V	GIS in a geological survey's migration strategy
Paul A, Cooper R & Thomson J W	Environmental monitoring using GIS at a scientific base in Antarctica
Petrie G	Photogrammetric input to an environmental GIS
Pipes S	Raising the standards: access to environmental Information
Raper J & McCarthy T	Spatial Data decision support using multimedia
Rayner R S	Geographical Information Systems for the Marine Environment The Professional as a Consultant
Roper C & Strahan A	Mapping the recent environmental history of the United Kingdom
Sault R J	State of the Environment from National to backyard
Sheehan R	The UK Digital Marine Atlas Project and Issues in Data Capture
Stileman M	Remotely Sensed Data: Complementing GIS Analysis in the Coastal Zone
Thomas A, Tellam J, Shepherd K & Greswell R	Modelling urban groundwater recharge using a Geographic Information
Thomas B D	Off-line Calibration and Validation Facilities at the Earth Observation Data Centre
Vaughan D	Project-based Environmental GIS
Wachowicz M & Broadgate M L	A Significant Challenge: Prediction of Environmental Changes using a temporal GIS

## AGI papers by subject

Wood T & Pool G	Managing the environmental impact of airports
Wren G & MacKenzie R	Deadline Oriented GIS – Task Specific
<b>Europe</b>	
Bartlett R	Problems and benefits of developing European-wide datasets
Buchanan H	Impact of European standards in geographic information
Ellis S & Moore A	One stop for Europe: an Integrated solution for regional development
Hinton M A & Wheeler K	Data Management for the Single Financial Community
Keith G	Using Intranet GIS to support corporate GIS service delivery in local government: an information-led approach
Kok B C & Chenez C J A	Putting EGII (European Geographic Information Infrastructure) in a wider context
Longhorn R	GI2000 - Geographic information in Europe: four years later
Luzet C	MEGRIN - easy access to European mapping
Mahoney R & Corbin C E H	A g-Millennium for the citizen
Rae J	A Europe-wide marketing GIS
Robbins R	The Automobile Association - European Relationships and Activities
Roper C	Contrasting data policies: Europe and the USA
Salge F	Is the rest of Europe any different?
Simmons D	Issues and solutions in the analysis of natural hazards in Europe and Japan
Sowton M	European Standards - Where are they going?
Walker R S	European Standards - A Business View
Wood T	Using GIS to Develop the European Market for Geographic Information: The OMEGA CD
Wood T	The GI-META Project: Developing European Metadata Services
Young G M & Duley C	Spatial Marketing Information and its Analysis: A Pan European Perspective
<b>Health</b>	
Bundred P, Hirschfield A & Marsden J	GIS in the Planning of Health Services in a District Health Authority
Burns S	Desktop Mapping: The Avon Experience Lessons Learnt
Butler D & Bendel N	Developing a health and community profile for a Health Action Zone
Carson A & Colledge M	An Information System for Health Needs Assessment in Primary Care
Cooper D, Smith R, Somervaille L & Lawrence G	Examples of Geographical Information Systems in cancer surveillance
Gatrell A, Maddocks A, Kirwan M & Garnett S	Making GIS sing and dance to a purchaser's tune
Grundy C, Landon M, Thakrar B, Wilkinson P & Crawley R	The Use of Geographical Information Systems for Assessing Health Care needs at Locality Level
Heatile H F	The use of a GIS to assist in interpreting variations in primary care prescribing patterns
Hewett D J.Dr.	Geographical Information. An Essential Ingredient in the Planning and Provision of Health Services
Hirschfield A, Brown P J B, Marsden J & Bundred P	A GIS-linked Database for Analysing the Deployment of Community-based Health and Social Services on the Wirral
Nathanail P Dr.	Environmental threats to human health, eco-systems and built structures
O'Reilly D & Reid J S	Where's the point?: The utility of translation files for geocoding in health research in Northern Ireland
Odom A	GIS in NHS: a user's perspective
Pritchard M & Benson L	Geographical Information Systems and the NHS Internal Market
Smith R	Joined up health GIS: opportunities for a healthier GI
Stevenson S, Walls P, Landon M, Grundy C, Wilkinson P & Crawley R	Interpretation and misinterpretation of small-area health data
Stringer P & Haslett J	Exploratory, Interactive analysis of spatial data: an illustration in the area of health inequalities

Todd P, Bundred P & Brown P	The Demography of Demand for Oncology Services: A Health Care Planning GIS Application
Walls P, Stevenson S, Landon M, Wilkinson P & Crawley R	GIS methods for linking health and population data – getting a consistent geography
Wise S, Haining R & Blake M	Analysing intra-urban variations in colorectal cancer – the role of GIS

### Integration

Adrian G & Hardy K	Facilities & Estates Management with GIS
Albaredes G	Corporate GIS and access to information
Alderson J & Abel R	Evaluating spatial technology for global deployment
Alla P & Trow S W	Implementation of a GIS – A way to optimising utilities operations
Aybet J & Walpole R	An Integrated GIS Approach to the Use of Earth Observation Data – Sugar Beet prediction and management system
Bingham P & Thorncroft R	GIS in a Small Shire County
Blakemore M	Sharing Data – Whose why how?
Bourke A	How we Integrated GIS with Existing Central RDBMS over a wide area network
Boyd G & Schaap D	Integrating Marine Geographical Information
Brand M J D & Gray S	From Concept to reality
Buehler K A	What you need to do to prepare for an open GIS: Working in an open environment
Buxton R & Ball C E	Geographic Information and the Expert System in Local Authority Development Control
Cook P	Enterprise GIS – the emperor has no clothes
Dale P F	Domesday 2000: The Professional as a Politician
Ellis S & Moore A	One stop for Europe: an Integrated solution for regional development
Gadd S	GIS - Forging a Key Role in Data Integration
Garland R N	Towards a National Land Use Database
Gill S G	Corporate GIS Implementation: Strategies, staff and stakeholders
Graafland A	GIS in Dutch municipalities
Grimshaw D J	The Transformation of Customer Databases
Gugan D J & Gliddon D J	User Requirements for an Integrated GIS
Hardy G A K	From GIS to Graphical MIS
Hobson S A	Bridging Islands to Increase Return on Investment
Homer A R & Watson M	Integrated Data Saves Money!!
Hoyle S B, Hogg J & Salter D	Development of open GIS applications using mapping toolkits and standard s/w development tools
Hudspith D & Hinton P	Real-time visualisation using push technology
Ives M	Reaping the Benefits
Ives M J & Hartley J C	Management of the Implementation of a Digital Records Systems
Keddie J G & Docherty E.	GIS and the 1991 Census as a cohesive force in Local Government
Kelley P	Towards channel optimisation in retail financial services (with case examples)
Kemp Z & Meaden G	Monitoring fisheries using a GIS and GPS
Kendrick G.	AM/FM/GIS and SCADA/NMS integration
Langford M & Fisher P	Measuring the accuracy of cross areal population estimates
Lloyd J	Is Data Modelling Enough?
Lloyd-Humphreys A, McDonald I, Mahoney R P & McLaren R A	The development of a computerised land registration scheme for the Isle of Man
McLaren R A & Healey R	Corporate Harmony – A Review of GIS Integration Tools
Mitchell I	Corporate GIS – Do the Real Users get the systems they want?
Moore A	GIS Implementation in Local Government - the central approach
Morgan R & McKay I	Corporate Mapping Libraries a Local Authority experience
Mounsey H	From Research to Reality– the Diffusion of Innovation
Newell R G & Batty P M	GIS Databases are different

## AGI papers by subject

Sian A J & Xavier R L	Integrating Data Derived from within the British Local Government Institutional Framework
Smith A B	Small Scale Data – A Large Scale Problem
Stoneman P	Geographic Information Systems in the Metropolitan Police Service
Swainston R	Integration of data within GIS – A case study in the Metropolitan Borough of Dudley, West Midlands
Thomas B D	Off-line Calibration and Validation Facilities at the Earth Observation Data Centre
Vipond D L & Harvey R A	Gluing GIS into the System Integration environment
Waters R & Ternouth P	Kill the ‘G’ in GIS!
Weatherill D & Keddie J	Building a Financial Case for GIS
Weatherill D & McLaren R	A walk on the wild side: managing corporate GIS data in the field

### Internet, Intranet, World Wide Web

Allen M	The impact of the Internet on the GIS community
Benson D	Choosing mapping data for use on the web: a practical guide
Boyd P D A	Heritage UK plc - a portal to space and time through web GIS
Collins S & Ives R	Keeping pace with the changing face of postcode geography
Cuthbert A	Regaining the OpenGIS initiative
Dean S	Implementing web-based GIS in Shepway District Council
Doyle L	One-stop shops - delivering information to the people of Manchester
Ellul C	Extracting Value from GIS Data Via the Web
Gould A	The global information infrastructure: protection, exploitation and legislation
Green D R	Internet, the WWW and Browsers: The basis for a Network-based Geographic Information (GIS) for Coastal Zone Management
Grimshaw D J	The resurrection of distance: GIS in e-Business
Jenkins W & Kearns C	Everybody likes a smart asset
Keith G	Using Intranet GIS to support corporate GIS service delivery in local government: an information-led approach
Laver J	GIS/Vector mapping via the internet: system security, the key to electronic-commerce
Lawrence V & Parsons E	GIS in disguise: improving decision-making with geography
Lawrence V V	Should you be a data publisher
Legg J S	Managing risk in GIS projects
Lewis-Brown G	Intranet GIS for informed policing: better decisions informed by better data
Lochhead D	GIS: Providing a foundation for community governance
Longhorn R A	Protecting your digital information: Business models for ECMS
Mackanness W, Ewardes A & Jackson M	Anywhere, anytime, anything, anyhow: opportunities for Geographic Information in a mobile world
MacLellan J & Musgrave T	GIS and best value – a corporate approach
Maslen J	Attracting business: the web mapping approach to encouraging inward investment
McGill M	State-of-the-art network centric GIS: why and where Internet and Intranet GIS applications are successful
Parson E & Lawrence V	The Net Revolution
Pipes S	Raising the standards: access to environmental Information
Raper J, McCarthy T & Williams N	Integration of real-time GIS data with web-based virtual worlds
Rieks P	The Spatial Internet Platform, from Concept to Reality
Rieks P	From G-isolation to Web to Wireless
Roper C	The WebMapping project
Smith S & Paine M	Can an Intranet provide a corporate GIS solution?
Tear A	www.election.co.uk - the creation of a geographically referenced web site for the 1997 General Election
Tear A & Marshall A	Taking CACI's AreaData Service to the Internet: A Learning Experience
Thompson S	GIS is everywhere: the mobile Internet future

Webb R A	Joined-Up Utilities: NJUG Proposals for Internet Exchange of Asset Records
Webster G	Protecting Software
White M	Information and knowledge management
Wood T	The GI-META Project: Developing European Metadata Services
Wooden S, Greathead N & Meggs M	Delivering estate solutions to defence needs

### Land information services and systems

Bibby P	Address lists, timetables and profits: from texts through geography to results
Bibby P & Shepherd J	GIS: Strategic Choice or Laundry Lists?
Chainey S	The importance of geography: better information for tackling social exclusion
Gittings B & Mounsey H	GIS and LIS Training in Britain: The present situation
Hemmings D H	Introduction to the National Land Information Service (NLIS)
Ledger R	NLIS – new landmarks in surveying
Manthorpe J	National Land Information Service: an association of geographic information?
McLaren R & Allbrook W	AGI Survey 1998
Murray K	Ordnance Survey and the N issues
Musgrave T & Yeoman B	NLIS - the vision becomes reality
Pitticas N	Land Value Information Unit. The Scottish NLIS?
Ralphs M, Wyatt P, Sabel C, Fovargue A, Larnar A & Lopez X	Towards a National Land Information System for Britain – a Coordinated Research Strategy
Riddick M	How Public Information Provides Initiatives Benefit Private Enterprise
Smith B & Goodwin R	National Land Information Service: Feasibility study interim results
Smith P J	Instant Access to Land Registry Data - Now a Reality
Somorjay M & Yeoman B	National Land Information Service Issues Confidentiality, liability, data: a local authority perspective
Traynor M	Open House in Scotland
Wyatt P	Using a Geographical Information System for Property Valuation
Yeoman B & Musgrave T	Bristol City Council GIS - the first steps towards the NLIS goal

### Local government

Adnitt N	e-Government, great idea, meanwhile back in reality....
Bailey F	Towards a painless GIS Implementation strategy
Bingham P & Thorneycroft R	GIS in a Small Shire County
Blundell J	The use of Geographic Information for e-government in local authorities
Bosworth M	The Proposed National Street Gazetteer to a Standard Specification
Boyd P D A	Heritage UK plc – a portal to space and time through web GIS
Brandwood S & Capper C	Interactive Digital Local Plan
Buxton R & Ball C E	Geographic Information and the Expert System in Local Authority Development Control
Campbell H & Masser I	The Impact of GIS on Local Government in Great Britain
Campbell H & Masser I	Implementing GIS : The Organisational dimension
Cane S	Adding Corporate Value to Data – a sugGIStion
Capper B & Unwin D	Professional Development in the Geographic Information Industry
Chainey S	The importance of geography: better information for tackling social exclusion
Challen D R, Schnurr D J E & Young C A	GPS Integration to GIS technical solutions and case studies at Cheshire County Council
Clegg M & Robson M	Computer graphics and Geographic Information Systems Technology in Police Operations
Clegg P	GIS Implementation – The Sheffield Experience
Clegg P & Keddie A R	The Chorley Report 4 Years on – A User Perception
Couzens J	“...and they said it couldn’t be done!” or “0 to 200 in 12 months”
Cridland P	Reasons to be cheerful: local land and property gazetteer implementation
Davies J	GIS and Local Government reorganisation

## AGI papers by subject

Dean S	Implementing web-based GIS in Shepway District Council
Denness I	Robbers, rozzers and raster: mapping crime and disorders
Doyle L	One-stop shops – delivering information to the people of Manchester
Doyle S, Morris C, MacLean A & Allison G	Using Geographic Information Systems for Crime Auditing and Analysis
Ellis S	How not to use the 1991 Census
Ellis S & Gower C	A Generic data model for GIS Local Government
Ellis S & Moore A	One stop for Europe: an Integrated solution for regional development
Ellis S P	GIS 2000BC –AD2000
England J	Unlocking the Corporate GIS door
Farrell B	Corporate GIS in a Scottish Regional Council
Ferrari E	From Points to Polygons To Housing Strategies
Gilfoyle I & Challen D	GIS in Cheshire: After 20 year's experience, where are we going?
Gill S	Application of Geographic Information Systems to corporate planning in local government
Gill S G	Corporate GIS Implementation: Strategies, staff and stakeholders
Gill S & Roberts P	GIS – the next generation: every high school in Powys joins the corporate GIS community
Gilman P & Wood B	From corporate dinosaur to digital digs
Gower C J	GIS Implementation Standards
Gregory I, Southall H, Bennett C, Gilham V & White B	Building a Historical GIS for the British Isles
Hulme G	The development of a land and buildings database at Kensington and Chelsea
Jackson J	GIS for LEAs
Jenkins J C & Yardy A S	GIS: A strategic review for Northamptonshire
Jenkins W & Kearns C	Everybody likes a smart asset
Keddie J G & Docherty E	GIS and the 1991 Census as a cohesive force in Local Government
Keith G	Using Intranet GIS to support corporate GIS service delivery in local government: an information-led approach
Kelly D & Hilder D	Mapping the Isle of Man
Lawlor D & Tarleton J	GIS and the one-stop shop
Litton D	GIS in action in Local Government – The benefits of partnerships
Lloyd-Humphreys A, McDonald I, Mahoney R P & McLaren R A	The development of a computerised land registration scheme for the Isle of Man
Lochhead D	GIS: Providing a foundation for community governance
Lowe B & Hilder D	MANGIS: The story so far.
Lukes D & Vann P	Practical Implementation issues in a multi-function organisation
MacLellan J & Musgrave T	GIS and best value – a corporate approach
MacLellan J & Musgrave T	Registering Barking and Dagenham on the map
Mahoney R P & McLaren R A	Best practice guidelines for GIS Implementation in GB Local Government
Marchant A & McEnroe N	Providing GIS Solutions to Manage Contaminated Land
Maslen J	Attracting business: the web mapping approach to encouraging inward investment
Masser I & Campbell H	The take-up of GIS in Local Government: The LGMB/University of Sheffield Project
McAllister C S	A Scottish Approach – The Scottish Geographic Information Systems Forum
McCall S	The implementation of a corporate GIS in South Ayrshire Council
McCorrison C	GIS strategies – necessity or nuisance?
McCorrison C	GIS on a shoestring: A local authority case study – West Lothian Council
McCorrison C	Systems and data in business reorganisation
Miller P & Oxley J	Archaeology and Planning: GIS to the Rescue?
Monkhouse A	GIS in strategic planning: an Ayrshire perspective
Monkhouse A	Environmental data management – who cares?
Moore A	GIS Implementation in Local Government – the central approach

Moore A & Keith G	Decentralised GIS in a Corporate Environment
Morgan R & McKay I	Corporate Mapping Libraries a Local Authority experience
Morgan R S & Donaldson A W	GIS for a PIS?
Musgrave T	Ignore GIS – Information management is the key
Musgrave T & Flack J	1000 years of ownership: registering the City of Bristol
Palmer B D	GIS or GIM?
Peart I	Managing information...managing what?
Pugh D, Black T & Mounsey H	A National Land and Property Gazetteer? Opportunities for development
Pugh D & Cushnie J	The Land and Property Gazetteer
Reid J A	Getting Started in GIS – The Cornish Experience
Rietman J	The Utility base map of Rotterdam
Roberts J	The Hertsmere Experience
Roberts P, Beetlestone S & Ashton L	Moving Common Land Management into the Digital Arena
Robinson K W & Gill S J	Property Management and O.S. Structured Data
Rowland J & Lilley C	The wide area connection
Schmid G & Hunter E	GIS as a decision support tool for landscape and urban design framework in Medway
Shambler D	Talking sense – the GIS case
Sian A J & Xavier R L	Integrating Data Derived from within the British Local Government Institutional Framework
Somorjay M & Yeoman B	National Land Information Service Issues Confidentiality, liability, data: a local authority perspective
Swainston R	Integration of data within GIS – A case study in the Metropolitan Borough of Dudley, West Midlands
Tarabanis K & Tsonas I	Emergency planning: estimating service level of safe areas for the case of an earthquake
Tomlinson R	Services for older people living at home: the coming challenge
Watkins C	Understanding the concept of a Geographic Information System
Winter P	Selling a Corporate GIS
Wiseman P G	Suffolk County Council's corporate GIS pilot study
Worrall L	Developing a Corporate Information Systems Strategy
Wren G & MacKenzie R	Deadline Oriented GIS – Task Specific
Yeoman B	Addressing your information - BS7666. The Bristol Trails of BS7666
Yeoman B & Musgrave T	Bristol City Council GIS – the first steps towards the NLIS goal

### Location based services

Lopez X R	Delivery of mobile location-based services
Mackaness W, Ewardes A & Jackson M	Anywhere, anytime, anything, anyhow: opportunities for Geographic Information in a mobile world
Mountain D & Raper J	Designing geolocation services for next generation mobile phone systems
Sweet-Escott J	The last piece of the GIS jigsaw – wireless positioning

### London

Capell P J & Singh G	London Area Transport Survey; Automated Address Coding
Davies H	The use of aerial photography by local London authorities
Rickman D	PLEIADES – Evaluating the Use of GIS for a Planned Traffic Corridor Between London and Paris
Rickman D	Pleiades – Evaluating the use of GIS for a planning traffic corridor between London and Paris
Sommerfeld P	Unlocking the strategic power of the Mayor & the Greater London Authority
Sommerfeld P, Corbin C E H & Mansell J	Raising GI awareness through partnerships



**Market analysis, marketing**

Albaredes G	Data Sharing – a hurdle for GIS
Antenucci J C	Redefinition of GIS for the 90's: Strategic Trends
Binns S	Customising geodemographics: You take the High Road and I'll take the Tertiary site
Blakemore M	Management issues in a Nationally Networked Geographic Information System
Culf R	Re-inventing the convenience store: a role for geographic information
Duckenfield A	Can sample surveys enhance geodemographic databases?
Edwards S	The critical value of location to customer relationship
Filler N	Merging Marketing and GIS – a Cable initiative
Fishwick M & Hartnell T	What should our business development strategy be?
Gartzen P	GIS in the eye of a storm
Glickman V	Common Responses to Common Challenges Towards a Charter for the Marketing of Geographic Information
Grafton D	Targeting the consumer for financial services in the UK and Spain: the use of GIS in 'cold' and 'warm' marketing campaigns
Green P	GIS for Market Analysis
Grimshaw D J	Can Spatial Discrimination Save the Insurance Industry?
Gross H	Very Clever....but does it really mean anything?
Heal A	GIS across Orange – Marketing to Engineering to Customer Care
Hornby R	Successful Application of GIS at Nationwide Anglia
Leith M	The Geographic Information Market place of the Future
Mahoney R & McLaren R	Forget beef – have you exported your GIS skills?
McLaren R & Allbrook W	AGI Survey 1998
Murray K	Anticipating trends in geospatial data applications – research developments at Ordnance Survey
Nobre F	GIS in Telecom: how it can be used in direct business
Oliver A	Coordinating geographic information across government
Paliwoda S	The development and use of a GIS in the NHS
Perry S	Using a GIS to plan regional press advertising
Pritchard M & Benson L	Geographical Information Systems and the NHS Internal Market
Rae J	A Europe-wide marketing GIS
Thurman I	Planning the territories & journeys and implementing product ranging at store level – the FMCG experience
Thwaites P	The student population
Tyler J	British Rail and its passengers: How Geographic Information could bring them closer together
Vallis G	Towns alive!
Walker J	Developing a network optimization model for a major UK retail brand
Walker S & Cuff R	Location optimisation – what's the problem?
Wilson G	GIS and statistics in retail insurance marketing
Winter B	Using GIS - The Next Generation
Wood T	Using GIS to Develop the European Market for Geographic Information: The OMEGA CD
Young G M & Duley C	Spatial Marketing Information and its Analysis: A Pan European Perspective

**Meta data**

Abel R	DEAL - A Web-based Digital Energy Atlas and Library
Boyd G & Schaap D	Integrating Marine Geographical Information
Buchanan H	Impact of European standards in geographic information
Christie R	Building a new geospatial infrastructure: the future Ordnance Survey product portfolio

Craglia M & Signoretta P	The development of local Geographic Information infrastructures in the UK
Elliot L	Unlocking Geospatial Information? – ask Giraffe for the key
Fraser S	GIS: Geographic Information sorted!
Glover J	OPEN GIS – Removing the barriers to a spatial data infrastructure
Land N	The Classification of Spatial Data – A proposal for a National Standard
Masser I	A comparative evaluation of national geographic information strategies
Monckton C	Meta-Information and Future GIS
Oliver A	Coordinating geographic information across government
Peart I	Managing information...managing what?
Roberts P, Beetlestone S & Ashton L	Moving Common Land Management into the Digital Arena
Soloman D	Heavy metal contamination: the role of GIS
Walker P	The Digital Geographic Information Working Group
Wood T	Using GIS to Develop the European Market for Geographic Information: The OMEGA CD
Wood T	The GI-META Project: Developing European Metadata Services

### Modernising government

Adnitt N	e-Government, great idea, meanwhile back in reality....
Barr R & Roper C	Building a National Infrastructure for Geographical Referencing - A commentary
Blundell J	The use of Geographic Information for e-government in local authorities
Brandwood S & Capper C	Interactive Digital Local Plan
Campbell H & Masser I	The Impact of GIS on Local Government in Great Britain
Campbell H & Masser I	Implementing GIS: The Organisational dimension
Chainey S	The importance of geography: better information for tackling social exclusion
Clegg M & Robson M	Computer graphics and Geographic Information Systems Technology in Police Operations
Couzens J	“...and they said it couldn’t be done!” or “0 to 200 in 12 months”
Davies J	GIS and Local Government reorganisation
Dean S	Implementing web-based GIS in Shepway District Council
Ellis S & Gower C	A Generic data model for GIS Local Government
England J	Unlocking the Corporate GIS door
Gilfoyle I & Challen D	GIS in Cheshire: After 20 year’s experience, where are we going?
Gill S	Application of Geographic Information Systems to corporate planning in local government
Goodwin R	Partnerships for access: public private partnerships and joined-up Government
Gregory I, Southall H, Bennett C, Gilham V & White B	Building a Historical GIS for the British Isles
Keddie J G & Docherty E	GIS and the 1991 Census as a cohesive force in Local Government
Keith G	Using Intranet GIS to support corporate GIS service delivery in local government: an information-led approach
Litton D	GIS in action in Local Government – The benefits of partnerships
Lochhead D	GIS: Providing a foundation for community governance
Lowe B & Hilder D	MANGIS: The story so far
Mackinnon N	Webmapping: joining up a modernising government
MacLellan J & Musgrave T	Registering Barking and Dagenham on the map
Mahoney R & Corbin C E H	A g-Millennium for the citizen
Mahoney R P & McLaren R A	Best practice guidelines for GIS Implementation in GB Local Government
Marchant A & McEnroe N	Providing GIS Solutions to Manage Contaminated Land
Maslen J	Attracting business: the web mapping approach to encouraging inward investment
Masser I & Campbell H	The take-up of GIS in Local Government: The LGMB/University of Sheffield Project
Moore A	GIS Implementation in Local Government – the central approach
Musgrave T	Ignore GIS – Information management is the key

## AGI papers by subject

Palmer B D	GIS or GIM?
Rowland J, Cookson D & McLaren R	Geographical information – a catalyst for joined-up Government
Schmid G & Hunter E	GIS as a decision support tool for landscape and urban design framework in Medway
Sian A J & Xavier R L	Integrating Data Derived from within the British Local Government Institutional Framework
Yeoman B	Addressing your information – BS7666 The Bristol Trails of BS7666

### Northern Ireland

Apsey C	PFI brings computerisation to the Land Registers of Northern Ireland
Brand M J D & Mitchell G	CORINE Land Cover (Ireland) - The Northern Perspective
Ferris N & Wheeler S	Catchment Management Planning in Northern Ireland
Galloway B	GIS in the Northern Ireland curriculum: A multimedia approach!
Mitchell W G	A new GIS resource in Northern Ireland
O'Reilly D & Reid J S	Where's the point?: The utility of translation files for geocoding in health research in Northern Ireland
Oliver A & Havercroft M	NIMSA – Mapping for the National Interest
Porter L & McNamee C	GIS and the review of parliamentary constituencies in Northern Ireland

### Photogrammetry

Chapman D, Downman I & Muller J P	Digital photogrammetry – interfaces with GIS
Davies A & Pittard S	Photogrammetry : The first step to better process industry management
Gugan D J	Photogrammetry and GIS
Petrie G	Photogrammetric input to an environmental GIS
Simmons G	Photogrammetric data capture for GIS datasets

### Professional development, CPD, ethics

Buchanan H	A Young Professional's View of the GIS Industry
Capper B & Unwin D	Professional Development in the Geographic Information Industry
Clegg P & Keddie A R	The Chorley Report 4 Years on – A User Perception
Crowder J	GIS – Engineering or Science?
Dale P F	Domesday 2000: The Professional as a Politician
Kennie T & Mather P	Do GIS Specialists need the Professional Institutions?
Logan I T	Professionalism in GIS: The Role of the Royal Institution of Chartered Surveyors
Rayner R S	Geographical Information Systems for the Marine Environment The Professional as a Consultant
Rix D & Markham R	GIS Certification, Ethics and Professionalism

### Remote Sensing

Aspinall R J	A Landscape Ecological Approach to Mapping Distribution and Abundance of Birds with GIS
Aybet J & Walpole R	An Integrated GIS Approach to the Use of Earth Observation Data - Sugar Beet prediction and management system
Bird A C	GIS Based Data on Land cover Change in the National Parks of England and Wales
Bowden K	New data, new information, new horizons
Brown N	Mapping of Land Cover from space and its use in a Geographical Information System
Brown R, Slater J & Askew D	Environmental Monitoring of Protected Landscapes - monitoring environmentally sensitive areas using satellite imagery, within GIS
Coopers P & Evans S	GIS and remote sensing in support of Antarctic field operations
Daniels D J	High Performance Ground Penetrating Radar System
Green D R & Morton D	Acquiring Environmental Remotely Sensed Data from Model Aircraft for Input to Geographic Information Systems

Heard M, Higgins C & Mather P	Prototype Expert Systems for the Geometric Correction of Remotely-sensed Images
Holden N & Butcher P	Catchment mapping and monitoring
McDonald A J W	Remote mapping of UK geology
Thomas B D	Off-line Calibration and Validation Facilities at the Earth Observation Data Centre

### Rural, farming, agriculture

Askew D, Matthews R & Swanton P	Great Expectations
Harris R	GPS, GIS and precision agriculture
Howes D A, Green M & Kurtz T	Issues in the assessment of rural deprivation in England
Lyons H	Assessing the scope for popular production across England and Wales
Miles A R, Anthony S G & Askew D	A comparison of Agricultural Lands Use and ENVIRONMENTAL Landcover data
Peltenburg J & Shewry M	The National Countryside Monitoring Scheme Visualisation and Analysis System
Traill A	Implementation of GPS and GIS in agricultural inspections

### Scotland

Mackinnon N	Webmapping: joining up a modernising government
Maslen J	Attracting business: the web mapping approach to encouraging inward investment
Peltenburg J & Shewry M	The National Countryside Monitoring Scheme Visualisation and Analysis System
Traynor M	Open House in Scotland
Winterkorn E	Local Authority GIS Usage in England, Scotland and Wales

### Standards

Abel R	DEAL – A Web-based Digital Energy Atlas and Library
Adnitt N	The Relational Database, Ideal for a Corporate GIS
Arnott D & Keddie A R	Data Capture – The Standards and Procedures Utilised within Northumbrian Water Group
Barr R & Campbell K	The Postal Address as a fundamental Geo-Reference
Bosworth M	The Proposed National Street Gazetteer to a Standard Specification
Buchanan H	Impact of European standards in geographic information
Cridland P	Reasons to be cheerful: local land and property gazetteer implementation
Dhillon P	Towards an Integrated Future
Dowers S	SQL – The Way Forward
Elliot L	Unlocking Geospatial Information? - ask Giraffe for the key
Fraser S	GIS: Geographic Information sorted!
Glover J	Open GIS™ – The Drive Towards Business Applications
Glover J	OPEN GIS – Removing the barriers to a spatial data infrastructure
Gower C J	GIS Implementation Standards
Gradwell D J L	Can SQL Handle Geographic Data?
Harrison A R	The National Land Use Database: from concept to implementation
Harrison A R	The National Land Use Database: developing a framework for spatial referencing and classification of land use features
Haywood P	AGI and NTF (National Transfer Format): The Way Forward
Hulme G	The development of a land and buildings database at Kensington and Chelsea
Jenkins J C & Yardy A S	GIS: A strategic review for Northamptonshire
Land N	The Classification of Spatial Data - A proposal for a National Standard
Larner A & Nicholson M	Making the National Land and Property Gazetteer a reality
Lewis-Brown G	Intranet GIS for informed policing: better decisions informed by better data
MacLellan J & Musgrave T	GIS and best value – a corporate approach
McCallum D & Oliver A	Reigning over anarchy - standardising the UK's geographic base
Monckton C	Meta-Information and Future GIS
Murray K	Building a new geospatial infrastructure: What does the Digital National Framework mean to its customers?

## AGI papers by subject

Nanson B, Smith N & Davey A	What is the British National Geospatial Database?
Parsons E	XML: The lifeblood of G-Business
Pipes S	Raising the standards: access to environmental Information
Puckey J	Census geography in the year 2000
Pugh D, Black T & Mounsey H	A National Land and Property Gazetteer? Opportunities for development
Rackham L J	Surveying the Address
Rickman D	Open Systems GIS – Do We Need Them?
Rowley J	Summary of Standards Papers
Rowley J	International Standards – Competition or Cooperation?
Rowley J	Progress towards GIS interoperability
Rowley J R	A Strategy for Geographic Information Standards
Rowley J R	Geographic Information – The Standards Viewpoint
Rowley J R	Standards – A key building block of Geographic Information Strategy?
Sharman D & Haywood P	The National Transfer Format in 1991
Sian A J & Xavier R L	Integrating Data Derived from within the British Local Government Institutional Framework
Sinclair A N	Four into one will go, the Move from four records centres to one
Somorjay M & Yeoman B	National Land Information Service Issues Confidentiality, liability, data: a local authority perspective
Sowton M	European Standards – Where are they going?
Storer G	Standards, Who Needs Them?
Walker P	The Digital Geographic Information Working Group
Walker R S	Standards for GIS Data
Walker R S	Data quality standards
Walker R S	European Standards – A Business View
Walker R S	A standardised approach to referencing geographic phenomena
Wood T	The GI-META Project: Developing European Metadata Services
Woodsford P	The AGI Today
Woodsford P A	Using Geographic Data – Practicalities and Politics
Yeoman B	Addressing your information – BS7666 The Bristol Trails of BS7666
Yeoman B & Musgrave T	Bristol City Council GIS – the first steps towards the NLIS goal

### Strategy

Afors J, Chiu M & Martin J	Designing for corporate information
Albaredes G	Data Sharing – a hurdle for GIS
Alderson J & Abel R	Evaluating spatial technology for global deployment
Annand K & Hookham C	A GIS Strategy for guarding the water environment
Bainbridge P, Hinton P & Curry D	GIS: Unlocking the Benefits by Implementing Applications
Callaghan J G	GIS – Increasing business efficiency and profit
Cane S	Adding Corporate Value to Data – a sugGIStion
Cross D	How to populate your GIS Database, on budget and on time
Deakin R & Diment R P	Emergency Services
Drake P	The use of different Data Conversion options for a GIS application in the Water Industry
Farrell B	Corporate GIS in a Scottish Regional Council
Giddings T	Ingredients for Successful GIS Implementation: A Hong Kong Case Study
Gordon M & Gennery D	Data as a Corporate Resource
Grimshaw D J	Towards an appropriate GIS Strategy
Hooper B D	Operational Management of Geographical Information in South West Water
Levett G R & Rowley J	Don't let GIS be the tail that wags the dog!
Litton D	GIS in action in Local Government - The benefits of partnerships
Lukes D & Vann P	Practical Implementation issues in a multi-function organisation
Lythgoe M & Tong D	Ominpresent GIS

Mahoney R P	The Organisational Implications of Corporate Data Management for GIS
Mahoney R P	GIS Applications for Corporate Data
Mahoney R P & McLaren R A	Best practice guidelines for GIS Implementation in GB Local Government
McLaren R A & Healey R	Corporate Harmony – A Review of GIS Integration Tools
McMillan R & Williams D S	Reaping the Benefits of a GIS System
Medyckyj-Scott D	User and organisational acceptance of Geographical Information Systems: The route to failure or success
Newell D	Strategies for managing large AM/FM/GIS systems
Openshaw S, Cross A, Charlton M, Brunnsden C & Lillie J	Lessons learnt from a Post Mortem of a failed GIS
Ovadia D C & Loudon T V	GIS in a geological survey's migration strategy
Palmer B D	GIS or GIM?
Paschoud J & Bell A	Quality GIS Applications - Easier said than done?
Pearce N	Towards a Formula for Success
Reid J A	Getting Started in GIS - The Cornish Experience
Rhind D	Policy on the Supply and Availability of Ordnance Survey Information over the next five years
Rietman J	The Utility base map of Rotterdam
Roberts J	The Hertsmere Experience
Rowley J R	Standards – A key building block of Geographic Information Strategy?
Sheath N	Geography – A Corporate Resource
Shore D G	Resourcing a Corporate GIS Implementation – A Strategic Viewpoint
Trevor I & Russell D J	Data Capture – in weeks not years
Vincent S	Is GIS putting the cart before the horse?
Weatherill D & Buchanan D	Effective Transition: The Management Skills and Processes
Webb R A & Elkins P G	Guidelines for the Implementation and Management of a GIS
White A	Bringing together the right team to turn GIS pilots into Production Systems
Wilson G	GIS and statistics in retail insurance marketing
Witten A P, Peacock B & Jacobs R	The Role of GIS in managing corporate data within Northeast Water's System architecture
Woodcock M E & Clennell R	Can I Use a Digitising Bureau?
Worrall L	Developing a Corporate Information Systems Strategy

### Technology

Abbott T	GIS and Interactive multi-media in retail
Adnitt N	The Relational Database, Ideal for a Corporate GIS
Adnitt N	Data Capture - The Technology, The Issues
Albaredes G	GIS Usability: The Challenge of the 1990's
Allinson J	The Breaking of the third wave: The Demise of GIS
Andrews D E, Hartley W S & Walter J	GIS and ROMANSE – Integrating Traffic Systems
Annand K	BPR: A Golden Opportunity for GIS
Antcliff M	Semi-Automatic General Operations Plot
Antenucci J C	Redefinition of GIS for the 90's: Strategic Trends
Ashton C H	Desktop Mapping the Future view of the Enterprise GIS?
Aybet J	Open GIS : Product Related Aspects of Creating a Common Platform for Spatial Information Systems and Data Sets
Batty P	An Introduction to GIS Database Issues
Brown P J B, Batey P W J, Hirschfield A & Marsden J	Poisson Chi Square Mapping, GIS & Geodemographic Analysis: The Spatial & Aspatial Analysis of Relatively Rare Conditions
Bundock M S & Theriault D	Integration of Case Technology into the GIS Environment
Cassettari S	Using Aerial Photography in your GIS
Chapman D, Dowman I & Muller J P	Digital photogrammetry – interfaces with GIS
Clark M J	GIS Awareness: The Technical and Educational Challenge

## AGI papers by subject

Clegg P	Basic Issues in Data Capture
Cooke I	Chameleon in the Field The Benefits of Configurability
Coote A	Running a successful GIS project – a supplier’s perspective
Daniels D J	High Performance Ground Penetrating Radar System
Davies J	Raster – The Forgotten Frontier
Dhillon P	Towards an Integrated Future
Dixon B	Transferring Data into Information – Tools and Technologies
Dunn R & Harrison A	Assessing User Requirements for GIS – the critical stage in implementation: how prototyping can help you get it right
Easterfield M E, Newell R G & Theriault D G	Management of Time and Space in GIS
Flowerdew R, Green M & Lucas S	Analysing Local House Price Variations with GIS
Gallagher S	The Personal GIS Revolution
Gittings B M, Dowers S, Sloan T M, Healey R G & Waugh T C	Turbo-Charging your GIS: Dealing with Performance Issues
Glover J	Open GIS™ – The Drive Towards Business Applications
Glover J	Open GIS Consortium
Gottier B M & Ruwoldt G	State-of-the-art network-centric OpenGIS™ simple feature API CORBA
Gradwell D J L	Can SQL Handle Geographic Data?
Gray T	Advanced Methods of Capturing and Using GIS Data in the Field
Green D R & McEwen L J	Turning Data into Information: Assessing GIS User Interfaces
Green D R & McEwen L J	GIS as a component of Information Technology courses in Higher Education: Meeting the requirements of employers
Grimshaw D J	Broadening Your horizons: Shifting your thinking
Halls P J	Video for Capture of Paper Material – Worthless for Some but Useful for Others?
Harrison A, Dunn R & Turton P	Environmental GIS: Technology, Data and Policy
Hendley D J	Parallel Computing in GIS
Hobson S A	Bridging Islands to Increase Return on Investment
Hughes T	EC Fishing Vessel Tracking & Monitoring via GPS and Satellite Communications
Knott J & Shiers D	Mobile Maps – Sending vector map based maps across radio networks for use in unplanned locations by GIS Users
Legg S	Benefits of RAD methodology for GIS projects
Longley P, Batty M, Shepherd J & Sadler G	On the use of Digitized Boundaries of Urban Areas in the Spatial Analysis of Settlements: The Case of South East England
Maguire D J	Spatial Data Management: Multi-User Access to Continuous Spatial Databases
Maguire D J	A High Performance, Object-oriented Spatial Database Management System
Maguire D J, Kimber B & Laming R	A Corporate Map Server!
Markham R & Rix D	Application development from components - the opportunities for the GIS Industry
Masser I & Campbell H	The take-up of GIS in Local Government: The LGMB/University of Sheffield Project
McCorrison C	GIS strategies – necessity or nuisance?
McLaren R A	Casual User Interfaces for GIS Through the Use of Hypertext Technology
McLaren R A & Healey R	Corporate Harmony - A Review of GIS Integration Tools
Mitchell I	Corporate GIS - Do the Real Users get the systems they want?
Morgan R S & Donaldson A W	GIS for a PIS?
Murray K	Anticipating trends in geospatial data applications - research developments at Ordnance Survey
Murray K & Gomm S	GISlab in Ordnance Survey: lessons from three years experience
Nathanail P & Rosenbaum E I M	Spatial Interpolation in GIS for environmental studies
Newell D	Strategies for managing large AM/FM/GIS systems
Newell R G & Batty P M	GIS Databases are different
Offen G, Brooker A & Timms T	Re-engineering business processes at the Coal Authority with fully integrated GIS and work flow

Openshaw S, Cross A & Charlton M	Using a super computer to improve GIS analysis
Parsons E	The Development of a Multimedia Hypermap
Pedersen H B, Nagle J, Mullins T, Kosonen A & Prastacos P	GIS - based “home-run” in the Real Estate Business
Platt P G	Developments in Scanning, Application & Compression of Colour Raster Data
Raper J & Bundock M	Extending GIS user interface concepts in the UGIX project
Raper J F & Bundock M S	GIS User Interfaces: A Window on the Future
Rickman D	Open Systems GIS – Do We Need Them?
Rowley J	International Standards – Competition or Cooperation?
Shears J	GIS technology: where are we heading? The GIS missing link
Sheehan R	Coastal Zone Management is okay but it’s not as good as the real thing!
Shepherd I D H	Meeting the design challenge of Multi-Sensory GIS
Smith R	How to move GIS into the mainstream
Storer G	Standards, Who Needs Them?
Stuart N	Spatial Analysis in GIS: Value Added or Vapour?
Thomas J	Picking the Perfect Peripheral
Walker J C & Hampson E	Integrating GIS with the Network using ISDN
Walker R S	European Standards – A Business View
Waters R	Air Photos to GIS, do we need the map?
Windsor P & Aybet J	What Object-Orientation Offers to Geographical Information Systems
Winter B	Using GIS – The Next Generation
Wood A J	Geographic Information Systems: An Executive Decision Perspective
Woodsford P	Map data re-engineering and multi-product generalisation – from spaghetti sheets to intelligent multi-scale products with web mapping

### Utility applications

Alla P & Trow S W	Implementation of a GIS – A way to optimising utilities operations
Arnott D & Keddie A R	Data Capture – The Standards and Procedures Utilised within Northumbrian Water Group
Bainbridge P, Hinton P & Curry D	GIS: Unlocking the Benefits by Implementing Applications
Barker P	Geographic Information Systems in BT: BT Uses GIS 40 different ways to manage its business
Boulby B	Locating the customer in a Utility GIS
Camidge P & Mathews J	First steps up the Strategic staircase: A quick, low risk path to GIS
Cima J	Enhancing Network Analysis for Water Utilities
Clarke K E & Norris M T	Data and information highways
Clegg P & Keddie A R	The Chorley Report 4 Years on – A User Perception
Drake P	The use of different Data Conversion options for a GIS application in the Water Industry
Dyson J	Data Integration via the Gazetteer
Filler N	Merging Marketing and GIS – a Cable initiative
Ford R, Whiter J & Woodward T	Burst water mains and how to predict them
Gadd S	GIS – Forging a Key Role in Data Integration
Gadd S	Training for Effective Implementation. Are we getting it right?
Gobbett P & Alderson J	Paperless spatial data collection and maintenance – The Cable Tel experience
Gross H	Very Clever....but does it really mean anything?
Hartley J C, Homer I R, Trow S, Hinton P H & Everett C	Inter Utility Exchange of Electronic Map Based Records in the North East of England
Homer A R & Watson M	Integrated Data Saves Money!!
Hooper B D	Operational Management of Geographical Information in South West Water
Hooper B D	Five Years on and Meeting new challenges
Hooper B D	A stitch in time....
Hooper B D	GIS and the customer



## AGI papers by subject

Hoult C	David v Goliath: right sizing utility GIS applications
Ives M	Reaping the Benefits
Ives M	British Gas DRS Project – The Business Case
Ives M J & Hartley J C	Management of the Implementation of a Digital Records Systems
Jackson G H & Platt P	Machine transfer of Circuit Information from film to computer
Kendrick G	AM/FM/GIS and SCADA/NMS integration
Leaman S & Pool G	Practical experience in managing data quality
Lindsay P A	Quality data teams
Lythgoe M & Tong D	Ominpresent GIS
McMillan R & Williams D S	Reaping the Benefits of a GIS System
Mitchell I	Corporate GIS – Do the Real Users get the systems they want?
Mitchell I	Arid extra dry – GIS experience of the 1995 Yorkshire drought
Moore A	Growing in Stature: From Records Maintenance to Resource Planning
Newman B	Developing a Major GIS Project
Newman B	Setting up a major GIS Implementation
O'Reilly D & Reid J S	Where's the point?: The utility of translation files for geocoding in health research in Northern Ireland
O'Shea C	Application of GIS to telecommunications network
Park K	Integration of network design and documentation with work and asset management – solving fundamental issues first
Peacock D & Rutherford I	Concepts into reality: An Account of a GIS Implementation in the South Western Electricity Board
Ray C & Fraser M	Analysis of geographic data in the water industry
Rickman D	GIS in the utilities – talking strategy and doing tactics
Rietman J	The Utility base map of Rotterdam
Roberts G V, Park G W A & Cottle E J T	Manweb's Implementation of a Mapless GIS
Shore D G	Resourcing a Corporate GIS Implementation – A Strategic Viewpoint
Sinclair A N	Four into one will go, the Move from four records centres to one
Snoxell J	Portable GIS in the Water Industry – Dealing with HAUC
Snoxell J D	GIS – Satisfying business needs
Stuart-Brown F, Ward J & Rynn J	GIS in the Cable Industry
Sweet-Escott J	The last piece of the GIS jigsaw – wireless positioning
Townson S	Becoming ship-shape and Bristol fashion
Trevor I & Russell D J	Data Capture – in weeks not years
Turvey D	Bringing radio planning out of the back room
Vipond D L & Harvey R A	Gluing GIS into the System Integration environment
Watts C D	Implementation of a 4-D GIS at a Utility Company
Weatherill D & Keddie J	Building a Financial Case for GIS
Weatherill D & McLaren R	A walk on the wild side: managing corporate GIS data in the field
Webb R A	Joined-Up Utilities: NJUG Proposals for Internet Exchange of Asset Records
Webb R A & Elkins P G	Guidelines for the Implementation and Management of a GIS
Witten A P, Peacock B & Jacobs R	The Role of GIS in managing corporate data within Northeast Water's System architecture
Wood N H	Approach to Asset Records Management in Northumbrian Water Limited
Wood T R	Experience of an operational GIS in the Water Industry
Woodcock M E & Clennell R	Can I Use a Digitising Bureau?

### Wales

Bird A C	GIS-Based Data on Land cover Change in the National Parks of England and Wales
Gill S	Progress in Wales: GI at the grass roots
Lyons H	Assessing the scope for popular production across England and Wales

Manthorpe J	Developments in the Land Register for England and Wales and the future national land information system
Roberts P, Beetlestone S & Ashton L	Moving Common Land Management into the Digital Arena
Winterkorn E	Local Authority GIS Usage in England, Scotland and Wales
Zaba B	Digital ground water vulnerability mapping for England and Wales