

## Publications Summary -- Prof. Chris Rizos

### A. Papers in Refereed Journals - 158

- FENG, Y., **RIZOS, C.**, HIGGINS, M., LIM, S., & TANG, M. (2009). Developing regional precise positioning services using the legacy and future GNSS receivers. *Journal of GPS*, 8(1), 17-25.
- KAZEMI, S., LIM, S., & RIZOS, C. (2009). Integrated and automated segmentation and generalisation of raster data. *Int. Journal of Geoinformatics*, 5(3), 65-73.
- NG, A.H.M., CHANG, H.C., GE, L., **RIZOS, C.**, & OMURA, M. (2009). Assessment of radar interferometry performance for ground subsidence monitoring due to underground mining. *Earths, Planets & Space*, 61, 733-745.
- LIU, H., LI, X., GE, L., **RIZOS, C.**, & WANG, F. (2009). Variable length LMS adaptive filter for pseudorange multipath mitigation based on SydNET stations. *Journal of Applied Geodesy*, 3(1), 35-46.
- GE, L., NG, A.H.M., WANG, H., & **RIZOS, C.** (2009). Crustal deformation in Australia measured by satellite radar interferometry using ALOS/PALSAR imagery. *Journal of Applied Geodesy*, 3(1), 47-53.
- FENG, Y., & **RIZOS, C.** (2009). Network-based geometry-free three carrier ambiguity resolution and phase bias calibration. *GPS Solutions*, 13(1), 43-56.
- DOW, J.M., NEILAN, R.E., & **RIZOS, C.** (2009). The International GNSS Service (IGS) in a changing landscape of Global Navigation Satellite Systems. *Journal of Geodesy*, IGS Special Issue, 83(3-4), 191-198.
- LIM, S., & **RIZOS, C.** (2008). A conceptual framework for server-based GNSS operations. *Journal of GPS*, 7(2), 35-42.
- LIM, S., **RIZOS, C.**, & MUSA, T.A. (2008). Application of running average function to non-dispersive network-based Real-Time Kinematic positioning. *Journal of GPS*, 7(2), 58-65.
- MOAFIGPOOR, S., GREJNER-BRZEZINSKA, D., TOTH, C.K., & **RIZOS, C.** (2008). Quality assurance/quality control analysis of dead reckoning parameters in a personal navigator. In "Location Based Services & TeleCartography II: From Sensor Fusion to Context Models", G. Gartner & K. Rehl (Eds.), Lecture Notes in Geoinformation & Cartography, Springer-Verlag Berlin Heidelberg, ISBN 978-3-540-87392-1, 333-351.
- CHEONG, J.W., LI, B., DEMPSTER, A.G., & **RIZOS, C.** (2008). GPS/WiFi real-time positioning device: An initial outcome. In "Location Based Services & TeleCartography II: From Sensor Fusion to Context Models", G. Gartner & K. Rehl (Eds.), Lecture Notes in Geoinformation & Cartography, Springer-Verlag Berlin Heidelberg, ISBN 978-3-540-87392-1, 439-456.
- GE, L., ZHANG, K., NG, A.H.M., DONG, Y., CHANG, H.C., & **RIZOS, C.** (2008). Preliminary results of satellite radar interferometry for the co-seismic deformation of the 12 May 2008 Ms8.0 Wenchuan earthquake. *Journal of Geographic Information Science*, 14(1), 12-19.
- LI, Y., **RIZOS, C.**, WANG, J., MUMFORD, P.J., & DING, W. (2008). Sigma-point Kalman filtering for tightly coupled GPS/INS integration. *Navigation*, 55(3), 167-177.
- RIZOS, C.** (2008). Multi-constellation GNSS/RNSS from the perspective of high accuracy users in Australia. *Journal of Spatial Science*, 53(2), 29-63.
- LI, Y., MUMFORD, P., & **RIZOS, C.** (2008). Seamless navigation through GPS outages - A low-cost GPS/INS solution. *Inside GNSS*, July-August, 39-46.
- LEE, H.K., & **RIZOS, C.** (2008). Position-domain Hatch filter for kinematic differential GPS/ GNSS. *IEEE Transactions on Aerospace & Electronic Systems*, 44(1), 30-40.
- BARNES, J., **RIZOS, C.**, PAHWA, A., POLITI, N., & CRANENBROECK, J.van (2007). The potential for Locata technology for structural monitoring applications. *Journal of GPS*, 6(2), 166-172.
- LEE, H.K., SHIM, J.Y., KIM, H.S., LI, B., & **RIZOS, C.** (2008). Feature extraction and spatial interpolation for improved wireless location sensing. *Sensors*, 8, 2865-2885.
- LEE, H.K., SOON, B., BARNES, J., WANG, J., & **RIZOS, C.** (2008). Experimental analysis of GPS/Pseudolite/INS integration for aircraft precision approach and landing. *Journal of Navigation, Royal Institute of Navigation*, 61, 257-270.
- LI, Y., MUMFORD, P., & **RIZOS, C.** (2008). A low-cost real-time GPS/INS integrated system with hardware and software field re-configurability. *Coordinates*, IV(3), 12-17.
- RAPER, J., GARTNER, G., KARIMI, H., & **RIZOS, C.** (2007). Applications of location based services: A selected review. *Journal of Location Based Services*, 1(2), 89-111.
- DING, W., WANG, J., LI, Y., MUMFORD, P., & **RIZOS, C.** (2008). Time synchronisation error and calibration in integrated GPS/INS systems. *Journal of ETRI (Electronics & Telecommunications Research Institute, Korea)*, 30(1), 59-67.
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- LI, X., **RIZOS, C.**, GE, L., & AMBIKAI RAJAH, E. (2007). Application of 3D time-frequency analysis in monitoring full-scale structural response. *Journal of Geospatial Engineering*, 8(1-2), 41-51.
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- RIZOS, C.** (2007). Alternatives to current GPS-RTK services & some implications for CORS infrastructure and operations. *GPS Solutions*, 11(3), 151-158.
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- PARKINSON, K., DEMPSTER, A.G., MUMFORD, P.J., & **RIZOS, C.** (2006). FPGA based GPS receiver design considerations. *Journal of Global Positioning Systems*, 5(1-2), 70-75.
- LI, Y., DEMPSTER, A.G., LI, B., WANG, J., & **RIZOS, C.** (2006). A low-cost attitude heading reference system by combination of GPS and magnetometers and MEMS inertial sensors for mobile applications. *Journal of Global Positioning Systems*, 5(1-2), 88-95.
- GLENNON, E.P., DEMPSTER, A.G., & **RIZOS, C.** (2006). Feasibility of air target detection using GPS as a bistatic radar. *Journal of Global Positioning Systems*, 5(1-2), 119-126.
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- RIZOS, C.** (2005). *Trends in geopositioning for LBS & GIS*. Pres. at 2005 Int. Conf. on Spatial Information Theory & Application, Taichung, Taiwan, 19-20 May.
- RIZOS, C.** (2005). *Pseudolite augmentation of GPS*. Pres. at the Workshop on Geolocation Technology to Support UXO Geophysical Investigations, Annapolis, Maryland, 1-2 June.
- RIZOS, C.** (2005). *GPS augmented system for bridge monitoring*. Pres. at the 1st Int. Leica GPS Bridge Monitoring Workshop, Hong Kong, 7-9 June.
- RIZOS, C.** (2005). *Positioning technologies for indoor & outdoor scientific & industrial applications*. Pres. at the 2nd KAIST-UNSW Int. Joint Seminar on Advanced ICT & Control Applications in Health Care, Daejeon, Korea, 20-23 June.
- RIZOS, C.** (2005). *Workshop on new GNSS developments*. Pres. At the Int. Symp. & Exhibition on Geoinformation 2005, Penang, Malaysia, 27-29 September.
- HIGGINS, M., & **RIZOS, C.** (2005). New GNSS developments and the impact on providers and users of Spatial Data Infrastructure. *FIG Working Week 2005 and GSDI 8*, Cairo, Egypt, 16-21 April.
- RIZOS, C.** (2005). *The "Holy Grail" of ubiquitous positioning: Can pseudolites deliver?* Pres. Dept. of Civil & Env. Eng. & Geodetic Sc., The Ohio State University, Columbus, Ohio, USA, 28 January.
- RIZOS, C.** (2005). *Progress and challenges in indoor positioning using GNSS technology*. Pres. Dept. of Civil & Env. Eng. & Geodetic Sc., The Ohio State University, Columbus, Ohio, USA, 31 January.
- RIZOS, C.** (2004). *Progress in Wave-Based Positioning Systems*, presented at the KAIST-UNSW seminar, UNSW, Sydney, Australia, 24-25 August.
- GE, L., CHANG, H.C., **RIZOS, C.**, & TRINDER, J.C. (2004). Multi-pass differential radar interferometry with the aid of GIS. Poster pres. *XXth Congress of the Int. Society for Photogrammetry & Remote Sensing*, Istanbul, Turkey, 12-23 July.
- RIZOS, C.** (2004). *Galileo and the Future of GNSS*, presented at general meeting of the Australian Institute of Navigation, Sydney, Australia, 10 March.

- RIZOS, C.** (2003). *Satellite & ground-based wireless LDTs ... on the outside looking in*, presented to the School of Information Technologies, University of Sydney, Sydney, Australia, 10 December.
- RIZOS, C.** (2003). *Synchronised pseudolites*, seminar presented as part of the GNSS Technical Seminars, 2003 Int. Symp. on GPS/GNSS, Tokyo, Japan, 15-18 November.
- RIZOS, C.** (2003). *A new pseudolite-based positioning technology for high precision indoor and outdoor positioning*, presented to the Automatic Control Research Center, Seoul National University, Seoul, Korea, 19 November.
- RIZOS, C.** (2003). *Satellite and ground-based wireless location: options & trends in LDT*, presented to the 2nd Int. LBS Workshop, Seoul, Korea, 20 November.
- RIZOS, C.** (2003). *Status of GRAS - Australia*, presented to the 10th GNSS Workshop, Bokwang Phoenix, Korea, 21-22 November.
- GE, L., LI, X., & **RIZOS, C.** (2003). Subsidence monitoring using integrated radar interferometry, GPS and GIS techniques. *Int. Geoscience & Remote Sensing Symp. (IGARSS)*, Toulouse, France, 21-25 July.
- GE, L., JANSSEN, V., WANG, Y., & **RIZOS, C.** (2003). Tropospheric delay corrections to differential radar interferometry derived from GPS observations. *Int. Geoscience & Remote Sensing Symp. (IGARSS)*, Toulouse, France, 21-25 July.
- DODSON, A.H., & **RIZOS, C.** (2003). Report of IAG Section 1 "Positioning" 1999-2003. Presented at the XXIIIth General Assembly of the IUGG, Sapporo, Japan, 30 June - 11 July.
- HAN, S., & **RIZOS, C.** (2003). IAG SSG 1.179: Wide area modelling for precise satellite positioning. Presented at the XXIIIth General Assembly of the IUGG, Sapporo, Japan, 30 June - 11 July.
- POLONSKA, D., COLLINS, C., CUMMINS, P., SMITH, C.J.H., GE, L., & **RIZOS, C.** (2003). InSAR-based seismicity study of south-western Australia earthquake prone zone. Presented at the XXIIIth General Assembly of the IUGG, Sapporo, Japan, 30 June - 11 July.
- RIZOS, C.** (2003). *Carrier phase-based GNSS: A university research agenda*, presented at the Int. Sub-committee Meeting of the Civil GPS Service Interface Committee, Melbourne, Australia, 10-11 February.
- RIZOS, C.** (2003). *Advances in GNSS-based navigation*, presented to Australian Institute of Navigation meeting, Sydney, Australia, 14 May.
- RIZOS, C.** (2003). *Satellite Positioning in Geotechnology*, workshop presented at the Technical University of Crete, Greece, 2-6 June.
- RIZOS, C.** (2003). *Pseudolites & new positioning technologies*, presented at the National Aerospace Laboratory, Tokyo, Japan, 14 July.
- RIZOS, C.** (2003). *GNSS research at SNAP: A university research agenda*, presented at the National Aerospace Laboratory, Tokyo, Japan, 15 July.
- RIZOS, C.** (2003). *Pseudolite & related research at SNAP*, presented at the National Space Development Agency (NASDA), Tsukuba, Japan, 17 July.
- RIZOS, C.** (2003). *Pseudolites – the technology & applications*, tutorial presented at the 6th Int. Symp. on Satellite Navigation Technology Including Mobile Positioning & Location Services, Melbourne, Australia, 22 July.
- GE, L., CHENG, E., POLONSKA, D., & **RIZOS, C.** (2002). Multi-mode differential radar interferometry for crustal deformation monitoring. *Western Pacific Geophysics Meeting*, Wellington, New Zealand, 9-12 July.
- JANSSEN, V., & **RIZOS, C.** (2002). Processing a mixed-mode GPS network for deformation monitoring applications. *Western Pacific Geophysics Meeting*, Wellington, New Zealand, 9-12 July.
- RIZOS, C.** (2002). *Location, Location, Location: Positioning Technology Applications*, presented at the Smart Internet Technology CRC workshop, Sydney, Australia, 26 February.
- RIZOS, C.** (2002). *Getting to Know GPS*, seminar presented in Canberra, Australia, 7 March.
- RIZOS, C.** (2002). *From GPS to Pseudolites*, seminar presented at the Institute of Eng. Surveying & Space Geodesy, Univ. of Nottingham, U.K., 27 May.
- RIZOS, C.** (2002). *Engineering Aspects of GPS*, seminars presented in Adelaide, Australia, 13-14 June, 1-2 August, 13-14 August.
- RIZOS, C.** (2002). *Introduction to GPS*, seminar presented at Nortel Labs, Wollongong, Australia, 11-12 September.
- RIZOS, C.** (2002). *Engineering Aspects of GPS*, seminar presented in Canberra, Australia, 3-4 October.
- RIZOS, C.** (2002). *Telegeoinformatics - the integration of location, IT and wireless communications*, presented at the Int. Symp. & Exhibition on Geoinformation 2002, Kuala Lumpur, Malaysia, 22-24 October.
- RIZOS, C.** (2002). *The Use of Integrated GPS & Pseudolite Systems for Deformation Monitoring*, presented at the Dept. of Civil Eng., Chung-Hsin University, Taichung, Taiwan, 1 November.
- RIZOS, C.** (2002). *Virtual Reference Systems - Concepts and progress*, presented at the Ritsumeikan University, Kyoto, Japan, 29 October.

- RIZOS, C.** (2002). *Telegeoinformatics - the integration of location, GIS and ICT*, presented at the GIS Research Center, Feng Chia University, Taichung, Taiwan, 1 November.
- RIZOS, C., GE, L., & CHENG, E.** (2002). *Differential radar interferometry applications in Australia*, presented at the Int. Symp. on Geodesy, Kanazawa, Japan, 28-30 October.
- RIZOS, C., & GE, L.** (2001). Surface deformation studies using GPS & InSAR at SNAP-UNSW. Pres. at Australian Geological Survey Organisation, Canberra, Australia, 28 September.
- RIZOS, C.** (2001). GPS-based navigation & positioning research activities in SNAP. Pres. at Motorola Labs, Sydney, Australia, 5 October.
- ABIDIN, H.Z., DARMAWAN, D., KUSUMA, M.A., HENDRASTO, M., SUGANDA, O.K., GAMAL, M., KIMATA, F., & **RIZOS, C.** (2001). Studi Deformasi Gunung Kelut Dengan Metode Survei GPS. 26th Annual Meeting of the Indonesian Association of Geophysics, Jakarta, Indonesia, 1-3 October.
- RIZOS, C.** (2001). GPS - the way ahead. *Pres. at Navigation Forum*, HMAS Watson, Sydney, Australia, 15 February.
- RIZOS, C.** (2001). Pseudolites - what they bring to high precision GPS. Pres. Dept. of EE, Univ. of California, Riverside, 23 March.
- RIZOS, C.** (2001). How can my position on the paddock help my future direction? Pres. keynote speaker at *Geospatial Information & Agriculture Conference*, Sydney, Australia, 16-19 July.
- GE, L., **RIZOS, C.**, & HAN, S. (2000). CGPS -- what more can we do? *Annual Research Seminars, UNSW*, 20-21 November.
- RIZOS, C.** (2000). Current developments in GPS. Pres. to the Australian Institute of Navigation General Meeting, Sydney, Australia, 1 November.
- RIZOS, C.** (2000). Where does GPS go from here: New technologies and applications. Pres. at the "GPS/GIS Showcase 2000", Nanyang Technological University, Singapore, 22 November.
- WANG, J., DAI, L., & **RIZOS, C.** (2000). Pseudolite applications in positioning and navigation. *Annual Research Seminars, UNSW*, 20-21 November.
- RIZOS, C.** (2000). Where do we want to go? Pres. at the seminar "*Navigation & Telematics*", Institute of Geomatics-EPFL, Lausanne, Switzerland, 27-28 June.
- RIZOS, C.** (2000). Telematics and the emerging information society. Pres. at the *seminar "Navigation & Telematics"*, Institute of Geomatics-EPFL, Lausanne, Switzerland, 27-28 June.
- JANSSEN, V., ROBERTS, C.A., **RIZOS, C.**, & ABIDIN, H.Z. (2000). Experiences with a mixed-mode GPS-based volcano monitoring system at Mt. Papandayan, Indonesia. *Western Pacific Geophysics Meeting*, Tokyo, Japan, 26-30 June.
- JANSSEN, V., ROBERTS, C.A., **RIZOS, C.**, ABIDIN, H.Z., & SUGUNDA, O.K. (2000). A mixed-mode GPS-based volcano monitoring system: First tests at Gunung Papandayan, Indonesia. *Int. Association of Volcanology & Chemistry of the Earth's Interior General Assembly*, Bali, Indonesia, 18-22 July.
- DAI, L., CHEN, H.Y., HAN, S., **RIZOS, C.**, & KEARSLEY, A.H.W. (2000). Ambiguity recovery for long-range kinematic GPS positioning using a triple-difference-type approach. *Western Pacific Geophysics Meeting*, Tokyo, Japan, 26-30 June.
- GE, L., HAN, S., & **RIZOS, C.** (2000). Multipath stability derived from continuous GPS data using an adaptive filter. *Western Pacific Geophysics Meeting*, Tokyo, Japan, 26-30 June.
- GE, L., HAN, S., & **RIZOS, C.** (2000). The Double Interpolation and Double Prediction (DIDP) approach for InSAR and GPS integration. *Western Pacific Geophysics Meeting*, Tokyo, Japan, 26-30 June.
- WANG, J., & **RIZOS, C.**, (2000). GPS/Glonass ambiguity resolution: methodologies and performance. *European Geophysical Society Meeting*, Nice, France, 24-28 April.
- RIZOS, C.** (2000). Status of GPS surveying and prospects for the future. Pres. at GPS Seminar "*GPS and You in the New Millennium*", Singapore Institution of Surveyors & Valuers, Singapore, 21 January.
- RIZOS, C.** (1999). Precise satellite positioning: challenges & prospects. Pres. at *GPS/GIS Showcase*, Nanyang Technological University, Singapore, 19-20 November.
- RIZOS, C.** (1999). The Singapore multiple GPS reference station network: a unique test and development facility. Pres. at *GPS/GIS Showcase*, Nanyang Technological University, Singapore, 19-20 November.
- RIZOS, C.** (1999). Recent research and development in GPS. Pres. at *GPS Seminar*, Chulalongkorn University, Bangkok, Thailand, 23 November.
- ABIDIN, H.Z., SUGANDA, O.K., MEILANO, I., KUSUMA, M.A., SETYADJI, B., GAMAL, M., WIRAKUSUMAH, A.D., KAHAR, J., TANAKA, T., & **RIZOS, C.** (1999). Deformation monitoring of Guntur, Papandayan, Kelut, and Batur volcanoes in Indonesia using GPS surveys. Pres. *Fall Meeting of the Japanese Volcanological Society*, Kobe, Japan, 9-11 October.
- RIZOS, C.** (1999). Guidelines for GPS cadastral surveys. Pres. at *Sabah ISM seminar*, Kota Kinabalu, Malaysia, 21 August.
- JANSSEN, V., **RIZOS, C.**, & HAN, S. (1999). GPS at tide gauges: is multipath due to water surfaces a concern? Poster pres. *IUGG Congress*, Birmingham, UK, 18-30 July.
- HAN, S., & **RIZOS, C.** (1999). Medium-range GPS positioning techniques and their applications.

- Poster pres. *IUGG Congress*, Birmingham, UK, 18-30 July.
- HAN, S., & **RIZOS, C.** (1999). Local tide and geoid determination from airborne GPS kinematic positioning and LADS survey. Pres. *IUGG Congress*, Birmingham, UK, 18-30 July.
- RIZOS, C.**, & HAN, S. (1999). Quality control issues in real-time GPS positioning. Pres. *IUGG Congress*, Birmingham, UK, 18-30 July.
- RIZOS, C.**, HAN, S., GOH, P.C., & TOR, Y.K. (1999). The Singaporean GPS reference receiver network: an "open air" laboratory for innovative high precision GPS techniques. Poster pres. *IUGG Congress*, Birmingham, UK, 18-30 July.
- RIZOS, C.** (1999). The promise of pseudolites. Pres. at *BHPE-UNSW seminar*, Wollongong, Australia, 25 June.
- RIZOS, C.** (1999). A real-time GPS multi-reference station reference station facility in Singapore. Pres. at *BHPE-UNSW seminar*, Wollongong, Australia, 25 June.
- RIZOS, C.** (1999). The research agenda for GPS. Pres. at *BHPE-UNSW seminar*, Wollongong, Australia, 25 June.
- RIZOS, C.** (1999). Rapid static GPS positioning using the multi-reference station approach. Pres. at *BHPE-UNSW seminar*, Wollongong, Australia, 25 June.
- RIZOS, C.** (1999). The impact of a 3rd GPS frequency. Pres. at *BHPE-UNSW seminar*, Wollongong, Australia, 25 June.
- RIZOS, C.** (1999). Developments in GPS. Pres. at *Australian Institute of Navigation General Meeting*, Sydney, Australia, 2 June.
- RIZOS, C.** (1999). What a utility GPS is! Applications in mapping, surveying and remote sensing. Pres. at *Centre for Remote Sensing & GIS seminars*, The University of New South Wales, Sydney, Australia, 26 May.
- RIZOS, C.** (1999). Guidelines for GPS cadastral surveys. Pres. at *Dept. of Surveying & Mapping Malaysia seminar*, Kuala Lumpur, Malaysia, 10 May.
- RIZOS, C.** (1999). Progress towards low-cost GPS surveying: hardware, software & infrastructure issues. Pres. at *CPD meeting of the Institution of Surveyors Malaysia (Sabah branch)*, Kota Kinabula, Malaysia, 12 January.
- AHMAD-BERGER, Z., **RIZOS, C.**, & MORGAN, P. (1998). Issues associated with the definition and maintenance of ITRF-based regional geodetic datums. Pres. *Western Pacific Geophysics Meeting*, Taipei, Taiwan, 21-24 July.
- CHEN, H.Y., **RIZOS, C.**, & HAN, S. (1998). An analysis of a rapid static medium-range GPS positioning technique for geodynamic applications. Pres. at *Annual Research Seminars*, School of Geomatic Engineering, The University of New South Wales, 16-17 November.
- GE, L., HAN, S., & **RIZOS, C.** (1998). The integration of Continuous GPS and SAR Interferometry. Pres. at *Annual Research Seminars*, School of Geomatic Engineering, The University of New South Wales, 16-17 November.
- GE, L., HAN, S., & **RIZOS, C.** (1998). Continuous GPS: challenges, results and applications. Pres. at *Annual Research Seminars*, School of Geomatic Engineering, The University of New South Wales, 16-17 November.
- LIN, L.S., & **RIZOS, C.** (1998). A study of real-time regional ionosphere modelling using GPS measurements. Pres. *3rd International Symposium on GPS Technology*, National Cheng Kung University, Tainan, Taiwan, 10-11 November.
- RIZOS, C.** (1998). Quality control issues for deformation measurements. Pres. at workshop on *Advances in GPS Deformation Monitoring*, Curtin University of Technology, Perth, Australia, 24-25 September.
- RIZOS, C.** (1998). "There's so much to do!" - a personal opinion on the GPS R&D agenda. Pres. at *Annual Research Seminars*, School of Geomatic Engineering, The University of New South Wales, 16-17 November.
- RIZOS, C.**, & HAN, S. (1998). Rapid GPS surveying techniques using multiple reference receivers that address medium-range geodetic applications. Pres. *Western Pacific Geophysics Meeting*, Taipei, Taiwan, 21-24 July.
- RIZOS, C.**, HAN, S., & HAN, X. (1998). Low-cost GPS surveying: what is possible now, and some thoughts on the future. Pres. *ISM-UTM Geoinformation'98 Seminars*, Kuala Lumpur, Malaysia, 7-8 September.
- RIZOS, C.**, HAN, S., & HAN, X. (1998). Performance analysis of a single-frequency, low-cost GPS surveying system. Pres. *ISM-UTM Geoinformation'98 Seminars*, Kuala Lumpur, Malaysia, 7-8 September.
- RIZOS, C.**, HAN, S., CHEN, H.Y., & GOH, P.C. (1998). Continuously operating GPS reference station networks: new algorithms and applications of carrier phase-based, medium-range, static and kinematic positioning. Pres. *3rd International Symposium on GPS Technology*, National Cheng Kung University, Tainan, Taiwan, 10-11 November.
- ROBERTS, C.A., CHEN, H.Y., HAN, S., & **RIZOS, C.** (1998). Antenna phase centre variation: cause for concern for precise GPS deformation monitoring applications? Pres. *Western Pacific Geophysics Meeting*, Taipei, Taiwan, 21-24 July.
- RIZOS, C.** (1998). The limits and limitations of GPS. Pres. *"Great Ocean Races of the World"*

- Seminar, Australian National Maritime Museum, Sydney, Australia, 31 May.
- RIZOS, C.** (1998). All you wanted to know about GPS but were afraid to ask. Pres. *26th Annual Conf. Australian Map Circle*, Wollongong, Australia, 9 February.
- AHMAD-BERGER, Z., **RIZOS, C.**, & KEARSLEY, A.H.W. (1997). Towards Vision 2000 - a future geocentric geodetic datum and redefinition of the vertical datum for Peninsula Malaysia? Pres. *Int. Concluding GEODYSSSEA Symp.*, Penang, Malaysia, 14-18 April.
- LIN, L.S., & **RIZOS, C.** (1997). Study of real-time regional ionosphere modelling using GPS measurements. Pres. *1997 Joint Assemblies of IAMAS/IAPSO*, Melbourne, Australia, 1-9 July.
- RIZOS, C.** (1997). Applications and challenges in engineering and surveying of the GPS technology. Pres. at School of Civil & Structural Engineering, Nanyang Technological University, Singapore, 17 July.
- RIZOS, C.** (1997). The impact of GPS on cadastral surveying. Pres. at ACS (NSW) Seminar, Sydney, Australia, 4 August.
- RIZOS, C.**, & HAN, S. (1997). Precise kinematic applications of GPS: prospects and challenges. Pres. at Federal University of Parana, Curitiba, Brazil, 11 September.
- RIZOS, C.** (1997). GPS for cadastral surveys in Peninsular Malaysia: legal traceability issues. Pres. to Institution of Surveyors Malaysia seminar, 22 November.
- HAN, S., HIRSCH, B., MASTERS, E.G., **RIZOS, C.**, ROBERTS, C.A., & WONG, K. (1996). 1996 World Solar Car Challenge - Geomatics in the Sun. Pres. *Annual Research Seminars*, School of Geomatic Engineering, The University of New South Wales, 11-12 November.
- LIN, L.S., & **RIZOS, C.** (1996). Quality issues concerned with real-time estimation of ionospheric delay using GPS measurements. Pres. *Annual Research Seminars*, School of Geomatic Engineering, The University of New South Wales, 11-12 November.
- HAN, S., & **RIZOS, C.** (1996). "Apples and oranges": comparing GPS ambiguity resolution techniques. Pres. *Annual Research Seminars*, School of Geomatic Engineering, The University of New South Wales, 11-12 November.
- RIZOS, C.** (1996). How may GPS support UAV operations? Pres. *CSIRO UAV Symposium*, Canberra, Australia, 30-31 October.
- MASTERS, E.G., & **RIZOS, C.** (1996). Strategic support for the Sunswift Solar Car Challenge. Pres. *Mosiax World Conf.*, Sydney, Australia, 23-24 October.
- HAN, S., & **RIZOS, C.** (1996). Error analysis and design issues for real-time continuous GPS array monitoring systems. Pres. *Western Pacific Geophysics Meeting*, Brisbane, Australia, 23-27 July.
- LIN, L.S., **RIZOS, C.**, & WANG, Y.J. (1996). Real-time estimation of ionospheric delays using GPS. Pres. *Western Pacific Geophysics Meeting*, Brisbane, Australia, 23-27 July.
- MERTIKAS, S.P., & **RIZOS, C.** (1996). Quality control issues for permanent GPS receiver applications. Pres. *Western Pacific Geophysics Meeting*, Brisbane, Australia, 23-27 July.
- RIZOS, C.** (1996). Some issues concerning Intelligent Transport Systems (ITS): technology, infrastructure, business and institutional issues. Pres. at Feng Chia University, Taichung, Taiwan, 19 June.
- RIZOS, C.** (1996). Current trends in GPS surveying. Invited lecture, Faculty of Surveying & Real Estate, University of Technology Malaysia, Johor Bahru, Malaysia, 8 February.
- RIZOS, C.** (1996). What is GPS? Pres. Australian Institute of Navigation seminar "*GPS, Electronic Charts and You*", National Maritime Museum, Sydney, Australia, 2 June.
- HAN, S., & **RIZOS, C.** (1995). GPS network design and adjustment for rapid static operational mode. Pres. *5th S.E.Asian and 36th Australian Surveyors Congress*, Singapore, 16-20 July.
- KEARSLEY, A.H.W., & **RIZOS, C.** (1995). Geoid evaluations in South East Asia: the case for cooperation. Pres. XXI General Assembly Int. Union of Geodesy & Geophysics, Boulder, Colorado, 2-14 July.
- RIZOS, C.** (1995). GPS accuracy, reliability and integrity. Pres. Australian Institute of Navigation seminar "*GPS: A Users Guide for Pilots*", Sydney, Australia, 30 April.
- RIZOS, C.** (1995). Very long range Differential GPS positioning. Pres. at Institute for Eng. Surveying & Space Geodesy, Nottingham University, Nottingham, U.K., 31 August.
- RIZOS, C.** (1995). Long range precise Differential GPS. Pres. at Technical University of Crete, Chania, Greece, 7 November.
- RIZOS, C.**, SUBARI, M.D., & FU, W.X. (1995). Appropriate GPS technology for sub-half-metre accuracy applications: observation modelling for low-cost receiver hardware. Pres. *5th S.E.Asian and 36th Australian Surveyors Congress*, Singapore, 16-20 July.
- RIZOS, C.**, SUBARI, M.D., & FU, W.X. (1995). Appropriate GPS technology for moderate accuracy applications: some tests on alternative modelling for low-cost receiver hardware. Pres. at Dept. of Surveying & Mapping Malaysia seminar "*Surveyors in the 21st Century*", Kuala Lumpur, Malaysia, 21-22 July.
- RIZOS, C.** (1994). GPS trends. Pres. at General Meeting of the Australian Institute of Navigation, Sydney, Australia, 5 October.
- COLOMBO, O.L., & **RIZOS, C.** (1994). Long range GPS navigation with decimetre accuracy. Pres. *INSMAP'94 conf. "Positioning the Future"*, Hannover, Germany, 19-23 September.

- COLEMAN, R., MORGAN, P., & **RIZOS, C.** (1994). Sensitivity of tide gauge bench marks to vertical signals. Pres. *Western Pacific Geophysics Meeting*, Hong Kong, 25-29 June.
- COLEMAN, R., MORGAN, P., & **RIZOS, C.** (1994). The Australian 500km GPS network. Pres. *Western Pacific Geophysics Meeting*, Hong Kong, 25-29 June.
- RIZOS, C.** (1994). DGPS base station issues. Keynote address at the NSW Surveying & Mapping Manager's forum "*Collaboration in Establishing & Managing Permanent DGPS Base Stations for NSW (& ACT)*", Sydney, Australia, 2 May.
- COLEMAN, R., MORGAN, P., & **RIZOS, C.** (1993). The Australian Regional Network at Epoch 92. Pres. *General Meeting IAG*, Beijing, P.R. China, 6-13 August.
- COLEMAN, R., MORGAN, P., & **RIZOS, C.** (1993). The Australian GPS database and network information. Pres. *General Meeting IAG*, Beijing, P.R. China, 6-13 August.
- RIZOS, C.** (1993). GPS accuracy and reliability -- what's possible. Pres. *GPS Applications in Practice*, workshop organised by ACADS and the GPS Information Group, Sydney, Australia, 22 February.
- RIZOS, C.** (1993). GPS overview. Pres. at *Seminar/Workshop on GPS Surveying*, Kuala Lumpur, Malaysia, 22-24 June.
- RIZOS, C.** (1993). GPS surveying procedures. Pres. at *Seminar/Workshop on GPS Surveying*, Kuala Lumpur, Malaysia, 22-24 June.
- RIZOS, C.** (1993). Precise positioning with GPS. Series of two day lectures pres. at *Tropical School of Geodesy*, Bandung, Indonesia, 19-20 October.
- CHU, C., & **RIZOS, C.** (1992). Using the Leica System 200 GPS receiver for geodesy. Pres. *Annual Research Seminars*, School of Surveying, The University of New South Wales, November.
- FU, W.X., & **RIZOS, C.** (1992). Carrier phase from low-cost GPS navigation receivers - prospects for surveying. Pres. *Annual Research Seminars*, School of Surveying, The University of New South Wales, November.
- HIRSCH, B., & **RIZOS, C.** (1992). A rudimentary GPS-based vehicle tracking system - what can we learn? Pres. *Annual Research Seminars*, School of Surveying, The University of New South Wales, November.
- RIZOS, C.** (1992). Adding value to GPS. Keynote address at the *Workshop on GPS for Navigation and Positioning*, Durban, South Africa, 28-29 September.
- RIZOS, C.** (1992). High-precision GPS for geodynamics. Pres. at the *Workshop on GPS for Navigation and Positioning*, Durban, South Africa, 28-29 September.
- RIZOS, C.** (1992). GPS and the future. Pres. at the *Workshop on GPS for Navigation and Positioning*, Durban, South Africa, 28-29 September.
- RIZOS, C.** (1992). Understanding GPS accuracy - why am I so confused? Pres. meeting of the GPS Information Group, Sydney, November.
- RIZOS, C.** (1992). GPS software development within a university department - why do it? Invited lecture, Ministry of Interior, Taipei, Taiwan, December.
- RIZOS, C.** (1992). The potential for innovation in GPS positioning. Invited lecture, Ministry of Interior, Taipei, Taiwan, December.
- RIZOS, C.** (1992). Adding value to GPS - the story of civilian innovation of a military navigation system. Invited lecture, Cheng Chung Institute of Technology, Taoyuan, Taiwan, December.
- RIZOS, C.** (1992). GPS and military applications - are they special? Invited lecture, Cheng Chung Institute of Technology, Taoyuan, Taiwan, December.
- RIZOS, C.** (1992). The directions of GPS surveying and positioning. Invited lecture, Chiao Tung University, Shin-chu, Taiwan, December.
- RIZOS, C.** (1992). Understanding GPS accuracy - a discussion of factors influencing GPS surveying and navigation solutions. Invited lecture, Chiao Tung University, Shin-chu, Taiwan, December.
- RIZOS, C.** (1992). The potential for innovation in GPS positioning. Invited lecture, National Cheng Kung University, Tainan, Taiwan, December.
- RIZOS, C.** (1992). GPS surveying with low-cost receivers. Invited lecture, National Cheng Kung University, Tainan, Taiwan, December.
- RIZOS, C.** (1992). GPS research and teaching initiatives at the University of New South Wales. Invited lecture, Sun Yat-Sen University, Kaohsiung, Taiwan, December.
- RIZOS, C.** (1992). Real-time GPS positioning - what can we learn, what should we investigate? Invited lecture, Sun Yat-Sen University, Kaohsiung, Taiwan, December.
- RIZOS, C.**, & CHU, C. (1992). IGS orbits - a quick first look. Pres. *Annual Research Seminars*, School of Surveying, The University of New South Wales, November.
- RIZOS, C.**, & HIRSCH, B. (1992). Introducing the NovAtel™ GPS receiver. Pres. *Annual Research Seminars*, School of Surveying, The University of New South Wales, November.
- HUNG, P.S., & **RIZOS, C.** (1991). Polynomial model for ionospheric delay and how to keep the integer nature of the ambiguity. Pres. *Annual Research Seminars*, School of Surveying, The University of New South Wales, November.
- RIZOS, C.** (1991). GPS: the positioning revolution - promise and potential. Invited lecture,

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