

CURRICULUM VITAE

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Academic Qualifications & Awards:

- BSurv (Hons.1), UNSW, 1975; PhD, UNSW, 1980
- University Medal, UNSW, 1975
- Commonwealth Postgraduate Research Scholarship, 1975-78
- Fulbright Fellowship (Postgraduate Category), 1977-78; Rothmans Fellowship, 1979
- Alexander von Humboldt Fellowship, 1981-83, 1991
- Fellow of the Australian Institute of Navigation, 1999
- Fellow of the International Association of Geodesy, 1999
- Fellow of the U.S. Institute of Navigation, 2012
- Honorary Professor, Wuhan University, P.R. China, 2006

Brief Biography:

Chris Rizos joined the academic staff of the School of Surveying, UNSW, in 1987, and was promoted to Professor in 2001. Chris was Head of the School of Surveying & Geospatial Engineering (formerly School of Surveying), UNSW, from 2004 until 2013 when it merged with the School of Civil & Environmental Engineering. Chris has been researching the technology and high precision applications of GPS since 1985, and has authored or co-authored over 600 journal and conference papers. Chris established the Satellite Navigation and Positioning Lab at UNSW in the early 1990s - Australia's premier academic R&D group for GNSS and wireless positioning technology and applications.

Professional & Scientific Duties:

- President of the International Association of Geodesy (IAG), 2011-2015
- Member of the joint IAG/IHO Advisory Board for technical aspects of the UN Law of the Sea (ABLOS), 1995-2011; Chair 2009-2010
- Member of the Council of the Australian Institute of Navigation, 1994-2000
- Member of the AuScope Geospatial Steering Committee, 2007-2012
- Member of the APREF Steering Committee, 2009+
- Co-chair of the Multi-GNSS Asia Steering Committee, 2009+
- Member of the Executive Committee, International Centre for Research & Development of Satellite Navigation in S.E. Asia (NAVIS), Hanoi, Vietnam, 2012+
- Member of the National Committee for Earth Sciences of the Australian Academy of Sciences, 2012-2015
- Co-organiser and member of Organising Committee of the National Satellite Navigation Technology Symposia (originally jointly with QUT, then with the IGNS Society), in 1993, 1995, 1997, 1999, 2001, 2003, 2006, 2007, 2009, 2011, 2013
- Science Program Manager for positioning-related topics in the Cooperative Research Centre for Spatial Information (<http://www.crcsi.com>), 2002-2009
- Member of the Australian GNSS Coordination Committee, mid-2004 to mid-2006
- Member of the ICSM Geodesy Technical Sub-Committee, 2004+

- Member of Editorial Boards “GPS Solutions”, “Journal of Geospatial Eng.”, “Journal of Global Positioning Systems”, & “Inside GNSS; Editor-in-chief “Journal of Applied Geodesy”
- Member of the Governing Board of the International GNSS Service (IGS), 2004+; Member of the Executive Committee 2006+
- Reviewer of grant applications for research councils in Australia, USA, Canada, South Africa, New Zealand, and Hong Kong.

Research Interests:

- Carrier phase-based kinematic GPS/GNSS positioning over short, medium and long baselines: Research projects include combined multi-GNSS data processing algorithms, multi-reference station techniques, network-RTK, special techniques for long-range positioning applications.
- Development of GPS/GNSS-based deformation monitoring systems, low-cost GPS systems for survey applications and building monitoring.
- Modern geodetic datum studies for upgrade of Australian Geodetic Datum using GNSS and ITRF global geodetic products.
- Innovative geodetic techniques, integration of GNSS with Interferometric SAR techniques, guidelines for the development of multi-functional CORS networks, “smart” GNSS receivers.
- New positioning technologies, indoor positioning, pseudolites, Locata, WiFi & Mobilephone positioning, GNSS+INS integration (and other sensors), Location Based Services applications.

Grants:

CI in over 30 ARC grants in the last 20 years. In the last 5 years Chris Rizos has been a CI on research grants that have included 4 from the ARC; 3 from the CRC for Spatial Information; 2 from the Australian Space Research Program; and 3 from UNSW or federal government schemes; for a total value of over \$6M.

Publications:

Over 600 publications and conference papers in the areas of physical geodesy, satellite oceanography, satellite geodesy, GPS/GNSS and navigation technologies and applications (view full list at http://www.gmat.unsw.edu.au/snap/staff/rizos_papers.htm). Co-author of the book “Positioning Systems for Intelligent Transportation Systems (ITS)” (Artech House), and a monograph “Principles and Practice of GPS Surveying”. Associate Editor of the book “Manual of Geospatial Science and Technology” (Taylor & Francis, 1st & 2nd eds).



Chris Rizos
20 July 2014

Short Resume of the position, research interests, and activities related to the IUGG of Prof. Dr. Chris Rizos

Current Position:

Professor, School of Civil and Environmental Engineering, University of New South Wales, Sydney, Australia

Principal Research Interests:

My research interests since 1985 have been in the topic area of precise positioning using satellite-based technology such as GPS, which has broadened in the last decade to encompass all GNSS. My major research contributions have been in developing algorithms, investigating methodologies and promoting applications of GNSS technology. With respect to the latter, my focus has been on geodetic and geospatial applications. This has led me to also serve the IAG since 2004 through my membership of the Governing Board and Executive of the International GNSS Service (IGS), one of the IAG's services.

Activities related to IAG and IUGG

I have been engaged with IAG affairs since 1995, when I became chair of a Special Study Group. Over a period of almost 20 years I have served the IAG in a number of office bearer positions, from vice-president of one of the Sections, to president of Commission 4, then vice-president, and currently the IAG president for the term 2011-2015. I continue to have a close interest in IUGG affairs, in particular chairing a small committee to develop a draft of the IUGG Strategic Plan 2016-23.