

Professional Activities

(Updated on 15 May 2022)

Editorial Boards and Leadership

Founding Editor-in-Chief (2002-2007)

Journal of Global Positioning Systems, official publication of CPGPS
<http://geospatial-mapping-and-navigation.net/jgps/>

Associate Editor (2012 – present)

Journal of Navigation, official journal of the UK Royal Institute of Navigation, Cambridge Press

Member of Editorial Board (2000 – present)

GPS Solutions, Springer-Verlag, Berlin, Germany

Member of Editorial Board (2014- present)

Structural Monitoring and Maintenance (SMM), Techno-Press

Member of Editorial Board (2018- present)

Satellite Navigation, Springer-Verlag, Berlin, Germany

Member of Editorial Board (2019 - present)

Journal of Geodesy and Geoinformation Science, SinoMap Press.

Guest Editor (2003)

Together with Prof. G. Lachapelle, editing the special issue on *Wireless GPS* for the international journal GPS Solutions (2003, Vol. 6, No. 3.), Springer-Verlag

Column Editor (2002-2005)

GPS on the Web, GPS Solutions, an international journal, Springer-Verlag

Editor of The Pseudolite Special Issue (2007)

Journal of Global Positioning Systems; Vol. 6, No.2, CPGPS

Section Editor (2016-2017)

Special Collection on Mobile Mapping Technology (MMT), Journal of Surveying Engineering, American Society of Civil Engineers https://ascelibrary.org/page/jsued2/mmt_2015

Editor for the Special Issue (2016)

on Mobile Mapping with Ubiquitous Point Clouds, Journal: Geo-Spatial Information Science 19 (3), Taylor & Francis

Assessor/Reviewer of Research Grant Applications for

- Australian Research Council (ARC)
- Canada National Sciences and Engineering Research Council
- Czech Science Foundation
- Dutch Technology Foundation STW
- Hong Kong Research Grant Council
- Israel Science Foundation (ISF)
- Swiss National Science Foundation

Visiting and Honorary Appointments

Invited International Expert (2016-2020)

For Innovation Centre on Modern Geodesy and Geophysics at Wuhan University, sponsored by the Ministry of Education of China and State Administration of Foreign Experts Affairs, under the Program of “111 Plan”.

Invited International Expert (2016-2020)

For Research Centre on Autonomous Driving Vehicles at Shandong Academy of Science Institute of Automation sponsored by China Shandong Province, under the "Double-Hundred Talent Plan".

Luo Jia (visiting) Chair Professor (2015-2017)

Wuhan University, Wuhan, PR China.

Guest Professor

China University of Mining and Technology, Xuzhou, PR China.

Guest Professor

Southeast University, Nanjing, PR China.

Guest Professor

National Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing (LIESMARS), PR China

Conference Convenors, Keynote Speakers, and Chairs (2004-present)

- 1) **Convenor of the 2015 International Symposium on Mobile Mapping Technology (MMT-2015)** at UNSW, the largest MMT conference to date. Such a success and its lasting impact are due to several initiatives: for the first time, Industrial Advisory Committee was established, International Mapping Competition was held; Outstanding Achievement Awards were created, and more:

The MMT Symposium has been the primary event jointly sponsored by the International Society of Photogrammetry and Remote Sensing (ISPRS), International Association of Geodesy (IAG) and the International Federation of Surveyors (FIG). In addition, for the first time, another two major international organizations, the International Society of Mine Surveying (ISM) and the International Cartographic Association (ICA). Australia's Surveying and Spatial Sciences Institute (SSSI), and Spatial Industries Business Association (SIBA), Australian Robotics and Automation Association (ARAA), as well as Australian Network of Structural Health Monitoring (ANSHM), also offered the official sponsorships to the MMT2015.

<http://geospatial-mapping-and-navigation.net/mmt-2015/>

- 2) **Technical Chair for the world's premier GPS/GNSS conference** held by the US Institute of Navigation (ION) in 2008: Invited/appointed (Co-)Chairs for the sessions focusing on multi-sensor integration topics and coordinated the selections of abstracts as well as the student papers to be awarded with the prestigious ION student prizes.
- 3) **Convenor of the 2004 International Symposium on GPS/GNSS** at UNSW (which has been the largest GNSS conference in Australia, so far), opened by the then UNSW Vice Chancellor. GNSS-2004 Symposium featured presentations from three high profile international visitors: sponsored by Australian Global Positioning Systems Society Inc. (**GPS Society Inc**), Australian Institute of Navigation (**AION**), International Association of Chinese Professionals in Global Positioning Systems (**CPGPS**); International Association of Geodesy (**IAG**) Commission 4; International Association of Surveyors (**FIG**) Commission 5; International Association of Institutes of Navigation (**IAIN**).

<http://geospatial-mapping-and-navigation.net/gnss-2004/>

Keynote Speakers

Invited keynote speeches at the 5 International conferences, on the following topics

- 1) Modelling and Quality Control for Satellite Navigation: Progress and Issues (2010)
- 2) Geospatial Mapping and Navigation: 3D Maps and Applications (2011)
- 3) Monitoring the Integrity of Positioning, Navigation and Timing in ITS (2013)
- 4) Modelling and Quality Control for Geospatial Mapping and Navigation (2014)
- 5) Geospatial Mapping and Navigation for Autonomous Vehicles (2017)

Program committee member or a session chair/co-chair

Since 2004, having been either a program committee member or a session chair/co-chair at **over 60 international conferences**.

Professional Association Activities (State, National, and International)

State of NSW

- Member of SSSI NSW Regional Committee (2010-2020)
- SSSI NSW Spatial and Surveying education working group (2016)
- Member of Judging Panel for SSSI NSW Spatial Excellence Individual Awards (2015)
 - 1) Professional of the Year; 2) Young Professional of the Year; 3) Education Development Award;
 - 4) Undergraduate Student Award

National (in Australia)

- Member of SSSI Spatial Digital Twin Working Group 5.0 Standards (2021 – present)
- Member of Judging Panel and Member of the Organising Committee (2015)
For the first Australian National Map Competition in 2015, organised by the Surveying and Spatial Sciences Institute (SSSI) and Mapping Sciences Institute, Australia, in celebration of the International Cartographic Association's (ICA) International Map Year 2015-2016

International

Chairman of International Association of Geodesy (IAG) Committee on Geospatial Mapping and Geodetic Engineering, including 4 International Working Groups, (2015-2019)

Chairman of International Association of Geodesy (IAG) Committee on Geodesy in Geo-spatial Mapping and Engineering, including 5 International Working Groups, (2011-2015)

President (2004) (elected in 2003)

International Association of Chinese Professionals in Global Positioning Systems (CPGPS)

<https://www.cpgps.org/executives2004.php>

<https://www.cpgps.org/news2004.php>

Chairman of International Study Group

International Association of Geodesy (IAG) Study Group 4.1 "Pseudolite applications in positioning and navigation" (2003-2007)

Member of the Advisory Committee (2004- present)

The International Association of Chinese Professionals in Global Positioning Systems – CPGPS.

Member of International Study Group Activities

2021- now	Member of Navigation Data Standard (NDS) Association
1999-2003	Member, International Association of Geodesy Special Study Group (1.179) "Wide area modelling for precise satellite positioning."
1999-2003	Member, International Association of Geodesy Special Study Group (4.190) "Non-probabilistic assessment in geodetic data analysis."
1997-1999	Corresponding Member, International Association of Geodesy Special Study Group (1.154) "Quality control issues in real-time GPS positioning."