

Symposium

# IEEE ISTAS 2015 Final Programme

*Dublin, Ireland*

11 - 12 November 2015

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# Introduction

**2015 IEEE International Symposium on Technology and Society (ISTAS 2015)** takes place 11 - 12 November in Malahide, County Dublin. This is the flagship event of the IEEE Society on Societal Implications of Technology, and Technical Co-Sponsored by IEEE Consumer Electronics Society and IFIP TC9 - ICT and Society.

The **Society on Social Implications of Technology (SSIT)** of the Institute of Electrical and Electronics Engineers (IEEE) is concerned with how technology impacts the world, and with how the appropriate application of technology can improve the world.

**SSIT** focuses on issues such as: humanitarian engineering; environmental issues including climate change, green technologies, and sustainable design; privacy and security; other economic, health, and safety implications of technology; engineering ethics and professional responsibility; engineering education including k-12 and engineering education in social implications of technology; history of technology; public policy related to engineering, technology and science; health and healthcare technologies and impact; reliable energy and social issues related to energy, and social issues of information technology and telecommunications.

The central theme of **IEEE ISTAS 2015** in the context of European Year of Development is "**Culture, Ethics and the Knowledge Society**". The objective is to bring together senior representatives from leading public, private, education & research and societal organisations from around the world (and particularly IEEE Region 8 - which includes Europe and Africa) to support greater coordination, cooperation and knowledge sharing, to maximise potential socio-cultural and socio-economic impact of **SSIT** activities.

## Who will you meet?

The **IEEE ISTAS** Conference Series attracts policy makers, practitioners, and researchers from leading public, private, education and research and societal organisations around the world. Delegates and speakers attend to share knowledge and experience, insight and lessons learnt, and network with their peers from around the world.

**IEEE ISTAS 2015** also provides the unique opportunity to identify partners and opportunities to co-operate in international implementation and pilot projects as well as research projects targeting the needs of developed and developing countries alike.

## The Venue

**IEEE ISTAS 2015** takes place at the Grand Hotel, Malahide, County Dublin, Ireland.

## The Programme

The Preliminary Programme features three moderated plenary panels and a Scientific Programme with 15 parallel sessions featuring 60 presenters from leading public, private, education and research and societal sector organisations in 19 countries. The 2-day programme features an invigorating mix of paper and workshop sessions addressing thematic areas including ICT4D and Humanitarian Engineering, eHealth, Smart Cities, eAgriculture, Cloud Computing, Technology-enhanced Learning, Privacy and Security Issues, Professional and Research Ethics in STEM, Impact of Consumer Electronics, Technological Forecasting and Technology and Development Policy Issues. Session Chairs will ensure active discussion and facilitate delegate participation.

In the context of European Year of Development, the Opening Plenary on Wednesday 11 November

features a high level plenary panel on "*Technology and Development*". As this year's Symposium theme is "*Ethics, Culture and the Knowledge Society*", the second Plenary on Wednesday 11 November is focused on "*Professional and Research Ethics in STEM*" (Science, Technology, Engineering, Maths), while the Closing Plenary on Thursday 12 November focuses on "*Future Internet and Smart Cities*".

The programme is subject to change and the **IEEE ISTAS 2015** Organising Committee reserves the right to alter the contents, venue and/or speakers. This Programme is accurate as at 20 July 2015.

## Networking

Networking is a key feature of the **IEEE ISTAS** Symposium Series. Paper and workshop sessions are designed to maximise knowledge sharing by providing time for interactive discussions during the conference programme itself. Coffee breaks and lunch facilitate informal small group and one-on-one discussions following paper or workshop sessions.

The Delegate Showcase on the Conference Portal allows registered delegates, speakers and exhibitors to publish their own short profile and research interests to facilitate networking before, during and after the conference. Leverage this functionality to contact potential partners in advance and arrange to meet during the conference.

## Conference Proceedings

The **IEEE ISTAS 2015** Symposium proceedings will be published on a memory key provided to each delegate during Registration.

Following the Symposium, registered delegates will have access to all PowerPoint presentations, which will be published on the **ISTAS 2015** Portal.

Papers accepted for the Conference Proceedings and presented during the Symposium will be submitted to IEEE Xplore, with some **IEEE ISTAS 2015** papers selected for publication in special issues of *IEEE Technology and Society Magazine* and *IEEE Consumer Electronics Magazine*.

## Networking Dinner, 11 November

A Networking Dinner will take place on 11 November. It is necessary for delegates to pre-register for the dinner by 03 November due to limited places.

Delegates must have pre-booked participation as there is a fixed capacity. All confirmed delegates must wear their conference badge as identification to participate in the Dinner. As there is already a Waiting List, please let the Secretariat know as soon as possible if you will not be able to attend. Dress code – Business Casual.

## Security, Health and Safety

Please wear your name badge for all **IEEE ISTAS** activities, as it is your identification and allows you access to the facilities on offer. All delegates should take care of bags, personal computers, tablets, phones and other personal belongings at all times.

The organisers cannot accept any responsibility for losses incurred or for personal health and safety. Delegates should ensure they have personal health insurance and take due care when exploring Malahide and Dublin. Any special needs or requirements should be notified to the Conference Secretariat as far in advance of the event as possible.

## Hotel Accommodation

Delegates can book accommodation in the Grand Hotel, Malahide, County Dublin at discounted rates through online registration for **IEEE ISTAS 2015**.

The Grand Hotel Malahide is one of the finest Four Star Hotels in County Dublin, with beautiful rooms (many with sea views), excellent conference, dining and fitness facilities.

Delegates are strongly recommended to book their accommodation early as it will be allocated on a first-paid basis. Hotel accommodation can only be confirmed upon receipt of the associated payment. For further information, please visit:

[www.ISTAS2015.org](http://www.ISTAS2015.org)

## Malahide

Malahide is a pretty heritage village founded in the 12th century and located by the sea, 16 kms north of Dublin City. It is located close to the M50 and Dublin airport with good rail and bus links.

Local places to visit include Malahide Castle and Gardens, Avoca Shop and Café, Malahide Marina.

There are also a good mix of restaurants and pubs close to the Grand Hotel.

## Transport

It is possible to get either a taxi (c €15 and 20 mins) or Bus 102 (cheaper but with a longer transit time) directly from Dublin Airport to Malahide.

From Dublin City Centre, it is convenient to use the DART light rail system to get to Malahide Village.

## Sponsors

**IEEE ISTAS 2015** offers a variety of Sponsorship Opportunities to enhance your organisation's image and standing.

Support organisations include IEEE Humanitarian AdHoc Committee and Conference Ireland.

For more information, please visit [www.istas2015.org](http://www.istas2015.org) and contact [secretariat@istas2015.org](mailto:secretariat@istas2015.org)

## Visas for Ireland

Please visit INIS to determine if you require a visa to visit Ireland - [www.inis.gov.ie/en/INIS/Pages/Irish%20Visa%20Information](http://www.inis.gov.ie/en/INIS/Pages/Irish%20Visa%20Information)

If based on the nationality of your passport you determine that you do require a visa, please note that due to the number of visas being processed, it is a requirement to apply at least **three** months in advance of the conference start date.

To review the process to apply for a Conference/Event Visa - [www.inis.gov.ie/en/INIS/Pages/Conference%20or%20Event%20Visa](http://www.inis.gov.ie/en/INIS/Pages/Conference%20or%20Event%20Visa)

Visa fees and visa fee exemptions is outlined at [www.inis.gov.ie/en/INIS/Pages/fees](http://www.inis.gov.ie/en/INIS/Pages/fees)

Please complete your application on the INIS website and then follow up with the Irish Embassy in your country to submit the necessary documents.

You should also ensure that you have an invitation letter, proof of accommodation and other supporting documents available in case they are requested by immigration officials on arrival in Ireland.

Please note that Letters of Invitation can only be issued following online registration and receipt of the relevant conference fee. If you have any questions, please contact [secretariat@istas2015.org](mailto:secretariat@istas2015.org)

## Plenary Session Speakers



President of Ireland  
Michael D Higgins



Androulla Kaminara  
Principal Advisor, DG DEVCO  
European Commission



Dr Greg Adamson  
IEEE SSIT President, Australia



Gordon Day  
2012 President, IEEE, USA



Prof. Linda Hogan  
Vice-Provost, TCD, Ireland



Prof. Ron Arkin  
Georgia Institute of  
Technology, USA



Prof. Darelle Van Greunen  
Nelson Mandela Metropolitan  
University, South Africa



Diane Whitehouse  
Chair, IFIP TC9 - ICT and  
Society, UK



Dominic MacSorley  
Chief Executive Officer,  
Concern Worldwide



Prof. Jaafar Elmighani  
University of Leeds, UK



Louise Krug  
Senior Researcher, BT plc, UK

Plenary Speakers as at 03 November 2015 include:

- **President of Ireland, Michael D Higgins**
- **Androulla Kaminara**, Principal Advisor and Head of Task Force Knowledge, Performance & Results, DG DEVCO, European Commission
- **Dr Greg Adamson** (IEEE SSIT President), University of Melbourne, Australia
- **Gordon Day**, 2012 President, IEEE, USA
- **Prof. Linda Hogan**, Vice-Provost, Trinity College Dublin, Ireland
- **Prof. Ron Arkin**, Mobile Robot Laboratory, Georgia Institute of Technology, USA
- **Prof. Darelle Van Greunen**, Nelson Mandela Metropolitan University, South Africa
- **Diane Whitehouse**, Chair, IFIP TC9 - ICT and Society, UK
- **Dominic MacSorley**, Chief Executive Officer, Concern Worldwide
- **Prof. Jaafar Elmighani**, Co-Chair IEEE Green ICT Initiative, University of Leeds, UK
- **Louise Krug**, Senior Researcher, BT plc, UK
- **Charlie Sheridan**, Director IoT Systems Research Lab, Intel Labs
- **Prof. Robert Shorten**, IBM Research, Ireland

## International Programme Committee

A distinguished International Programme Committee (IPC) has been formed to review and provide feedback on papers and presentations, and chair sessions.

The **IEEE ISTAS 2015** IPC includes

- **Paul Cunningham** (Conference Chair), IIMC / IST-Africa, Ireland
- **Dr Greg Adamson (SSIT President)**, University of Melbourne, Australia
- **Dr Christopher Brewster**, Aston University, UK
- **Dr Maaruf Ali**, University of East London, UK
- **Satish Babu**, International Centre for Free and Open Source Software (ICFOSS), India
- **Assoc. Prof. Alejandra Boni**, Universitat Politècnica de Valencia, Spain
- **Dr. Carlos Calafate**, Universitat Politècnica de Valencia, Spain
- **Dr. Peter Corcoran**, National University of Ireland, Galway
- **Miriam Cunningham**, IIMC International Information Management Corporation Ltd, Ireland
- **Prof. Peter Excel**, Glyndwr University, UK
- **Dr Farank Fotouhi**, University of Qom, Iran
- **Prof. Ken Foster**, University of Pennsylvania, USA
- **Adj. Prof. Phil Hall**, University of Melbourne, Australia
- **Arnold Hensman**, Institute of Technology, Blanchardstown, Ireland
- **Dr Silvia Hostettler**, Ecole Polytechnique Fédérale de Lausanne, Switzerland
- **Steve Jubb**, University of Sheffield, UK
- **Prof. Laetus Lategan**, Central University of Technology, South Africa
- **Dr Pietro Manzoni**, Universitat Politècnica de Valencia, Spain
- **Prof. Balaji Parthasarathy**, International Institute of Information Technology (Bangalore), India
- **Dr. Agustí Pérez-Foguet**, Universitat Politècnica de Catalunya, Spain
- **Dr Andrew Power**, Institute of Art Design and Technology, Ireland

- **Prof. Steve B Sawyer**, Syracuse University, USA
- **Dr Siraj Shaikh**, University of Coventry, UK
- **Dr Manuel Sierra-Castañer**, Universidad Politécnica de Madrid Spain
- **Assoc Prof. Andrew Stranieri**, Federation University Australia
- **Dr Behnam Taebi**, Delft University of Technology / Harvard University
- **Prof. Darelle Van Greunen**, Nelson Mandela Metropolitan University, South Africa
- **Prof. Lav Varshney**, University of Illinois at Urbana-Champaign, USA
- **Diane Whitehouse**, IFIP TC9 - ICT and Society, UK
- **Dr Jane Zheng**, University of Ulster Jordanstown, Northern Ireland

## IEEE ISTAS 2015 Advisory Group

- **Dr Greg Adamson**, SSIT President
- **Adj Prof. Phil Hall**, University of Melbourne, Australia
- **Laura Jacob**, SSIT Past President
- **Dr Elya Joffe**, IEEE ISTAS 2014 Chair
- **Dr Rob Reilly**, IEEE Director (Region 6), USA
- **Dr Lew Terman**, IBM Research (Retired), USA

## Conference Secretariat

IIMC Ltd  
13 Docklands Innovation Park, 128 East Wall Road,  
Dublin 3, Ireland  
Tel: +353 (0) 1 8170607, Fax: +353 (0) 1 8170606  
e-mail: [secretariat@ISTAS2015.org](mailto:secretariat@ISTAS2015.org)



Wednesday,  
November 11,  
2015

08:00 Registration

09:00 Opening Plenary 1a: [Technology and Development](#)

Chair: [Paul Cunningham, IIMC, Ireland](#)

Androulla Kaminara, Principal Advisor and Head of Task Force Knowledge, Performance & Results, DG DEVCO, European Commission

Gordon Day, 2012 President, IEEE

Dominic MacSorley, Chief Executive Officer, Concern Worldwide

Diane Whitehouse, Chair, IFIP TC9 - ICT and Society, UK

Prof. Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

10:30 Plenary 2a: [Official Opening Address](#)

**President of Ireland, Michael D. Higgins**

11:00 Coffee Break

11:30 Session 3a: [ICT4D and Humanitarian Engineering](#)

Chair: [Diane Whitehouse, IFIP TC9 - ICT and Society, United Kingdom](#)

**The Ethical Limits of Bungee Research in ICTD**

Andy Dearden, Sheffield Hallam University, United Kingdom

**The Potential Development Impact of Mobile Application Vendors in Developing Countries**

Sami Hyrynsalmi, University of Turku, Finland

**Mobile Cloud Computing for Disaster Emergency Operation: A Systematic Review**

Teuku Aulia Geumpana, The University of New South Wales, Australia

**ICT Interventions for Socio-Economic Development – A Practitioner’s View**

Alida Veldsman, Nelson Mandela Metropolitan University, South Africa

**Innovative Stove Design Delivers Local and Global Impact**

John Weakliam, Vita, Ireland

11:30 Session 3b: [Impact of Consumer Electronics](#)

Chair: [Peter Corcoran, National University of Ireland, Galway, Ireland](#)

**Biometric Technology and Smartphones - A consideration of the practicalities of a broad adoption of biometrics and the likely impacts**

Peter Corcoran, National University of Ireland, Galway, Ireland

**Study on Content Rating and Security Permissions of Mobile Applications in Google Play**

Marius Marcu, Politehnica University of Timisoara, Romania

**Pocket Psychopaths - An Anthropomorphic Intentional Stance to Facilitate Moral Intuitions about (Consumer) Technology**

Wilhelm E. J. Klein, City University of Hong Kong, Hong Kong

**New Technologies and Mixed-use Convergence - How Humans and Algorithms are Adapting to Each Other**

Michael Fischer, University of Kent, United Kingdom

11:30 Session 3c [Privacy & Security Issues](#)

Chair: [Greg Adamson, University of Melbourne, Australia](#)

**Iris Recognition on Consumer Devices – Challenges and Progress**

Shejin Thavalengal, National University of Ireland Galway, Ireland

**Palm-print Recognition for Authentication on Smartphones**

Hossein Javidnia, National University of Ireland, Galway, Ireland

**Modelling Cyber Security Governance Maturity**

Rossouw de Bruin, University of Johannesburg, South Africa

**“About Your Smartphone Usage” – Privacy in Location-Based Mobile Participation**

Maija Poikela, Telekom Innovation Laboratories, TU Berlin, Germany

**FIT: Identity Theft Education - Study of Text-based versus Game-based Learning**

Susan Helsler, Iowa State University, United States

13:00 Lunch

14:00 Workshop 4a: [IST-Africa - Supporting Research Collaboration with Africa](#)

Chair: [Paul Cunningham, IIMC, Ireland](#)

**Overview of African Research Priorities and Research Capacity**

Paul Cunningham, IST-Africa / IIMC, Ireland

**Opportunities for Cooperation with Africa under Horizon 2020**

Miriam Cunningham, IST-Africa / IIMC, Ireland

**Insights into Open Innovation and ICT Entrepreneurship in Africa**

Paul Cunningham, IIMC / IST-Africa / DSV, Stockholm University, Ireland

**mHealth4Afrika**

Miriam Cunningham, IST-Africa / IIMC, Ireland

14:00 Session 4b: [Professional & Research Ethics in STEM](#)

Chair: [Katina Michael, University of Wollongong, Australia](#)

**Ethical Challenges for Future Technologists: The Growing Role of Technology and the Growing Ethical Responsibility of the Technologist**

Greg Adamson, University of Melbourne, Australia

**A Critical Realist Approach to Engineering Ethics**

Eddie Conlon, Dublin Institute of Technology, Ireland

**A Snapshot of the Subject Matter of Computing Ethics**

Brian Hall, Champlain College, United States

**Society enters a Science Curriculum**

Penelope Engel-Hills, Cape Peninsula University of Technology, South Africa

**Toward Meaningful Human Control of Autonomous Weapons Systems Through Function Allocation**

Marc Canellas, Georgia Institute of Technology, United States

15:30 Coffee Break

16:00 Plenary 5a: [Plenary II - Professional and Research Ethics in Science and Technology](#)

Chair: [Paul Cunningham, IIMC, Ireland](#)

Dr Greg Adamson (SSIT President), University of Melbourne, Australia

Prof. Ron Arkin, Mobile Robot Laboratory, Georgia Institute of Technology, USA

Prof. Linda Hogan, Trinity College Dublin, Ireland

17:30 End of Parallel Sessions



Thursday,  
November 12,  
2015

09:00 Session 6a: [eHealth I](#)

Chair: [Diane Whitehouse, IFIP TC9 - ICT and Society, United Kingdom](#)

**Towards a Model for Enhancing ICT4 Development and Information Security in Healthcare System**

Kehinde Kayode Agbele, Elizade University, Nigeria

**Cloud Computing and Mobile Devices Based System for Healthcare Application**

Hanan Jemal, ENIS, Tunisia

**“CHN on the GO” A Motivational Tool for Rural Health Workers in Ghana**

Jahera Otieno, Concern Worldwide, United States

**Applying “Big Data” and Business Intelligence Insights to Improving Clinical Care for Cancer**

John Lewis, University of New South Wales, Australia

**Mobile Communication Tools for the Reduction of Secondhand Smoke in Public Places: Russian Public Health Programs using mHealth**

Sergei Frolov, Health and Development Foundation, Russian Federation

09:00 Session 6b: [Technological Forecasting I](#)

Chair: [Greg Adamson, University of Melbourne, Australia](#)

**The Future of Computing – the Implications for Society of Technology Developments, Technology Forecasting, and the Kurzweil Singularity**

Peter Excell, Glyndwr University, United Kingdom

**Driving the Self-Driving Vehicle: Expanding the Technological Design Horizon**

Pascale-Louise Blyth, Aalto University, Finland

**Forming an Ethical Paradigm for Morally Sentient Robots: Sentience is Not Necessary for Evil**

Grant Tucker, Oklahoma Christian University, United States

**Towards Uniformity for Smart Glasses Devices: An Assessment of Function as the Driver for Standardisation**

Stuart Elder, Cork Institute Of Technology, Ireland

**Development of the Fynbos Leaf Optical Recognition Application (FLORA)**

Simon Winberg, University of Cape Town, South Africa

09:00 Session 6c: [Technology-enhanced Learning](#)

Chair: [Alida Veldsman, Nelson Mandela Metropolitan University, South Africa](#)

**Factors Impacting on Adoption of Technology-enhanced Learning Techniques by Universities in Nairobi, Kenya**

Miriam Cunningham, IIMC / DSV, Stockholm University, Ireland

**Improving Knowledge Worker Efficiency**

Frank Gleeson, University College Dublin, Ireland

**Community Engaged Scholarship: A Cyber Safety Awareness Project in South Africa**

Elmarie Kritzinger, Unisa, South Africa

**Empirical Findings: The use of Robotics to Engage the Youth from Lower-Socio Economic areas**

Oluwadara Asinobi, Ulster University, United Kingdom

10:30

Coffee Break

11:00 Session 7a: [eHealth II](#)

Chair: [Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa](#)

**Exploring the Mismatch Between Mobile Phone Adoption and Use Through Survey Data From Rural India and China**

Marco Haenssger, University of Oxford, United Kingdom

**A Falls Detection System for the Elderly Based on a WSN**

Arnoldo Diaz-Ramirez, SEP/Instituto Tecnológico de Mexicali, Mexico

**A Semi-Automated Food Voting Classification System:**

**Combining User Interaction and Support Vector Machines**

Patrick McAllister, Ulster University, United Kingdom

**Maker Movement for MNCH, A Model of Building Low Cost, High Quality Medical Devices Locally in Kenya**

Edwin Maina, Concern Worldwide Kenya, Kenya

11:00 Session 7b: [Technological Forecasting II](#)

Chair: [Peter Excell, Glyndwr University, United Kingdom](#)

**Vision for Secure Home Robots: Implementations of two-factor authentication**

Dhvanik Miglani, Institute of Technology, Blanchardstown, Ireland

**Challenges of Implementing a Social Prescription Service in the Clinic: Social Prescribing in the LAMP Project**

Chris Soraghan, St James's Hospital, Ireland

**Making the UCWW a Reality**

Ivan Ganchev, University of Limerick (UL), Ireland

11:00 Session 7c: [Cloud Computing / IoT](#)

Chair: [Steve Jubb, University of Sheffield, United Kingdom](#)

**The Cloud Afterlife: Managing your Digital Legacy**

Cathryn Peoples, Ulster University, United Kingdom

**Subcutaneous Body Area Networks - A SWOT analysis**

Philip Catherwood, Ulster University, United Kingdom

**The Internet of Things and its Impact on Social Relations of Mutual Trust**

Guiou Kobayashi, Federal University of ABC, Brazil

**i4Toys: Video technology in toys for improved access to play, entertainment, and education**

Enrique García, University College Cork, Ireland

**Open Standards in IoT, Society and Policy Setting Implications**

Zeta Dooly, Waterford Institute of Technology, Ireland

12:30

Lunch

14:00 Session 8a: [Smart Cities](#)

Chair: [Steve Jubb, University of Sheffield, United Kingdom](#)

**A Practise-based Theory of SEIDET Smart Community Centre Model**

Innocentia Zama Dlamini, CSIR, South Africa

**Towards a Citizen Actuation Framework for Smart Environments**

David Crowley, Institute of Technology, Tralee, Ireland

**Real-Time Ethics - A Technology Enabled Paradigm of Everyday Ethics in Smart Cities**

Hossein Shahrokni, Royal Institute of Technology, Sweden

**UCWW Semantic-Based Service Recommendation Framework**

Haiyang Zhang, University of Limerick, Ireland

14:00 Session 8b: [Technology and Development Policy Issues](#)

Chair: [Lewis Terman, IEEE, United States](#)

**Biometrics in Social Grants: Separating Myth from Reality**

Darelle Van Greunen, Nelson Mandela Metropolitan University, South Africa

**Supporting a Culture of Innovation at a new University of Technology**

Christine Winberg, Cape Peninsula University of Technology, South Africa

**To What Extent has Human Thought and Personality become Encapsulated by Technology-Related Activity?**

Tony Partridge, Institute of Technology, Sligo, Ireland

**A Review of the Policy Documents behind South Africa's Renewable Energy Independent Power Producer Procurement Programme**

Lynette Herbst, University of Pretoria, South Africa

**Supply System's Technology Configuration as a Contributor to End-User Vulnerability**

Katrina Michael, University of Wollongong, Australia

14:00 Session 8c: eAgriculture/mAgriculture

Chair: Paul Cunningham, IIMC, Ireland

**mAgriculture among Pastoralist Communities: A Case of Livestock farmers in Kenyan Arid and Semi-Arid Lands**

Amos Gichamba, Africa Nazarene University, Kenya

**ICT supported Extension Services in Conservation Agriculture Information Access for Small Holder Farmers in Laikipia County, Kenya**

Janet Achora, Makerere University Kampala- Uganda, Kenya

**Agricultural Information Delivery Mechanism Using ICT: A Case Study from Kerala, India**

Shely Koshy, Kerala Agricultural University, India

15:30

Coffee Break

16:00 Closing Plenary 9a: Future Internet and Smart Cities

Chair: Kerry Hinton, University of Melbourne, Australia

Prof. Jaafar Elmighani, Co-Chair IEEE Green ICT Initiative, University of Leeds, UK

Louise Krug, Senior Researcher, BT plc, UK

Charlie Sheridan, Director IoT Systems Research Lab, Intel Labs

Prof. Robert Shorten, IBM Research, Ireland

17:30

Best Paper Award

## Registration Information

It is necessary for all **IEEE ISTAS 2015** delegates to register separately online.

## Conference Fees

### Delegates' Fees - Early Bird until 31 August

• Early Bird - Student Developing Countries	€150
• Early Bird - IEEE Student or Life Members	€250
• Early Bird - Non-IEEE Student	€275
• Early Bird - Developing Countries	€300
• Early Bird - IEEE Member	€400
• Early Bird - Non-IEEE Member	€500

### Delegates' Fees - Full Fee from 1 September

• Student Developing Countries	€250
• IEEE Student or Life Member	€350
• IEEE Student	€375
• Developing Countries	€400
• IEEE Member	€500
• Non-IEEE Member	€600

### The Conference Fee includes:

- Entrance to all plenary and parallel sessions
- Documentation with proceedings on Memory Key
- Daily lunch and refreshments at morning and afternoon breaks

## Student and IEEE Fees

Before completing registration, you must send an email with a copy of your 2015 student (undergraduate, Masters, PhD Candidate) or IEEE/IFIP TC9 membership card to [secretariat@istas2015.org](mailto:secretariat@istas2015.org).

The appropriate fee will then be set against your online profile to allow you to complete registration.

## Terms & Conditions

1. All authors who are presenting a paper at **IEEE ISTAS 2015** must complete payment registration by **16 August** at the latest, prior to publication of the Final Programme.
2. In the case where a paper is jointly authored, the presenter of the paper is considered to be the author/presenter from a payment registration point of view. All co-authors are considered to be delegates.
3. Each presenter will present one paper in the Programme.
4. Delegates' fees must be paid before admission to the Conference.
5. IEEE and IFIP TC9 Members are entitled to apply for a 10% discount on the appropriate fee. Please provide the Membership No. as part of online registration and email a copy of valid Membership card to [secretariat@istas2015.org](mailto:secretariat@istas2015.org).
6. There are **no refunds for cancellations** but substitutions may be made at any time prior to the event by contacting the Conference Secretariat - [secretariat@istas2015.org](mailto:secretariat@istas2015.org)
7. Each individual must be registered separately on the IEEE ISTAS Conference portal.
8. Payment may be made by bank transfer or credit card (with some restrictions). Payments made by bank transfer must be **net of any bank charges** and the payment instruction should refer to "IEEE ISTAS 2015", your name, organisation and invoice number (if relevant).
9. Receipts are automatically issued electronically upon receipt of payment. If your organisation requires an invoice to process payment registration by bank transfer, please contact the Conference Secretariat.
10. Conference registration or hotel accommodation is not confirmed until full payment is received.
11. Letters of invitation can only be issued following delegate registration online and receipt of payment.