WESTERN SYDNEY UNIVERSITY

School of Computer, Data and Mathematical Sciences

HDR Seminar 17
Program
28 April 2022

Time	Details
12:00pm - 12:05pm	**Briefing:** A/Prof Dongmo Zhang **Topic:** Policy update and announcements
12:05pm - 12:20pm	**Invited Speech** **Topic:** Introduce to VYT Competition **Speaker:** Felicity Koulouris
12:20pm - 12:50pm	**Invited Speech** **Topic:** Visualise Your Thesis: Beyond the competition **Speaker:** Professor Simeon Simoff
12:50pm - 1:20pm	**Invited Speech** **Topic:** Visualise your thesis **Speaker:** Dr. Tomas Trescak
1:20pm - 1:25pm	**Candidature Research Presentation** **Topic:** Tactile emotion in Human-Robot Interaction **Speaker:** Leila Mouzehkesh Pirborj **Supervisory panel:** Dr Omar Mubin, Dr Aila Khan, Dr Michael Lwin
1:25pm - 1:30pm	**Candidature Research Presentation** **Topic:** Spatiotemporal data analysis to identify Environmental risk factors associated with Diabetes **Speaker:** Lakmini Wijesekara **Supervisory panel:** Dr. Liwan Liyanage, Dr. Michael O'connor
1:30pm – 1:35pm	Felicity's Summary
1:35pm – 1:40pm	**Closing**

Venue: Online Zoom
Meeting ID: 811 8498 8775
Password: HDR
Next Event: 26 May 2022

VYT (Visualise Your Thesis) Competition

Speaker: Felicity Koulouris

Abstract:

What is it? What does it involve? What should it look like.

Why should I do it. What is in it for me - PRIZES!!!!!!!

Visualise your thesis

Speaker: Dr. Tomas Trescak

Abstract: Nil

Biography:

Tomas's research flows through several realities, virtual, augmented and the real one, seeking new ways with Artificial Intelligence to facilitate complex cognitive tasks in simulation, education, health care, cyber security and social sciences. Dr. Tomas Trescak holds a PhD title in Computer Science with specialisation in artificial intelligence from Artificial Intelligence Research Institute, Barcelona, Spain (IIIA) of the Spanish Research Council (CSIC). Since May 2013, he works at Western Sydney University, where in 2016 he incorporated as Lecturer.

Dr. Trescak's main contribution is in facilitation of creation and execution of self-adaptable, interactive normative 3D environments and their subsequent application to the fields of agent-based simulation. During his research, he has developed several techniques and methods and implemented them in the set of open-source tools, used world-wide. These works were published in acclaimed international conferences and journals. Tomas is also multi-awarder researcher and academic, among others receiving in 2015 a Digital Disruptor Award, a gold medal for the best higher education educator by Australian Computer Society, or the Best Innovator award by Unearthed association.

Visualise Your Thesis: Beyond the competition

Speaker: Professor Simeon Simoff

Abstract: In the world of knowledge economy and smart automation, where knowledge is currency and asset when it comes to entrepreneurial opportunities, possessing the set of strategies, techniques and respective tools for communicating and engaging diverse audiences is essential for research professionals. At the end, these can make the difference to deploy the outcomes of research into a successful endeavour.

Visualising the concepts and the substance of a thesis is a great challenge to address. The selection of appropriate strategy and approach depends on the audience, the goals and desired outcomes, as well as capabilities and resources. Depending on the audience, visualised versions of a thesis can use different metaphors, be of different length, and use specific animation techniques, including elements of algorithmic animation where needed. After all, one is looking at maximally self-explanatory story. The presentation will discuss aspects of what and know-how of the development of capacity to visualise the multifaceted nature of research work for different audiences, including knowledge, skills and toolbox. Examples, will be given in the context of the international competition 'Visualise Your Thesis', which is focused on presenting the essence of the research in a 60-second audio-visual explainer.

Biography:

Professor Simeon Simoff is currently the Dean of the School of Computer, Data & Mathematical Sciences at the Western Sydney University. Simeon's theoretical and empirical research in visual data mining, human-information interaction, and interaction in computer-mediated environments. In visual data mining his work has focused both on visual representations facilitating visual pattern discovery and on visual representation for communication of analytics outcomes. The later links to the outcomes in human-information interaction and interaction in computer-mediated environments – expressive power of visual languages, compactness in terms of communicated messages and minimisation of cognitive overload.