



IⁿSITE 2020

**Proceedings of the
Informing Science and Information
Technology Education Conference**

**Online
July 7 – 8, 2020**

<http://InSITE.nu>

Edited By Eli Cohen

Papers have been blind reviewed by three or more external referees
(except as noted in the paper).

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Informing Science Institute Publications

Our Journals

INFORMING SCIENCE: THE INTERNATIONAL JOURNAL OF AN EMERGING TRANSDISCIPLINE (INFORMINGSCIJ)

JOURNAL OF INFORMATION TECHNOLOGY EDUCATION: INNOVATIONS IN PRACTICE (JITE:IIP)

JOURNAL OF INFORMATION TECHNOLOGY EDUCATION: RESEARCH (JITE: RESEARCH)

INTERNATIONAL JOURNAL OF DOCTORAL STUDIES (IJDS)

INTERDISCIPLINARY JOURNAL OF E-SKILLS AND LIFELONG LEARNING (IJELL)

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JOURNAL FOR THE STUDY OF POSTSECONDARY AND TERTIARY EDUCATION (JSPT)

ISSUES IN INFORMING SCIENCE AND INFORMATION TECHNOLOGY (IISIT)

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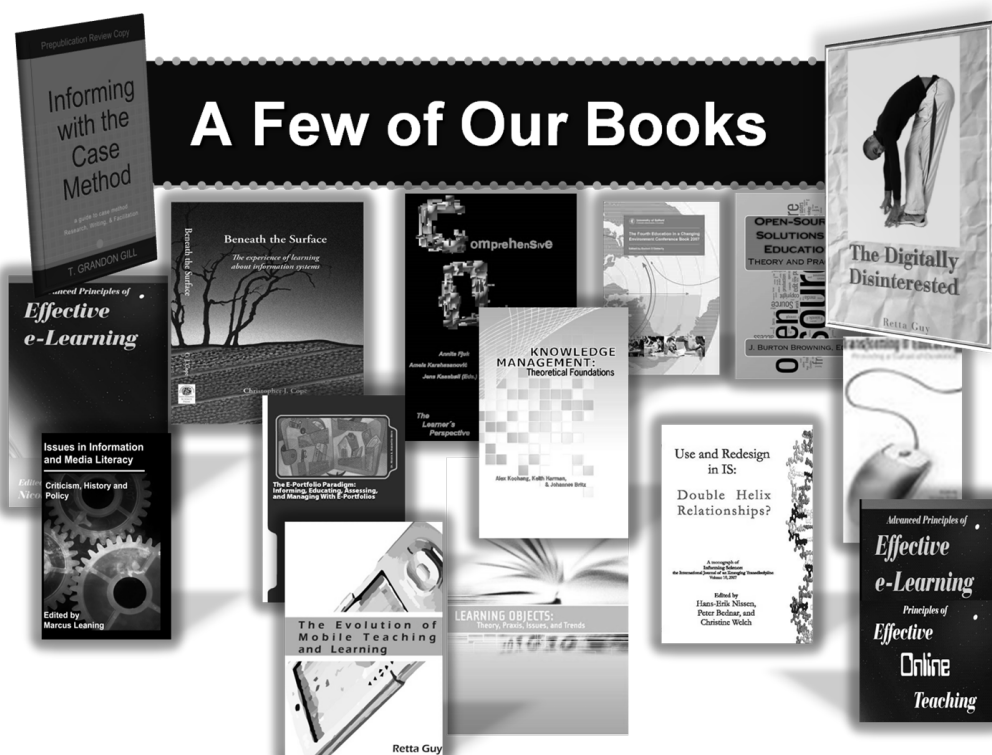


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Welcome

IⁿSITE 2020

Dear Colleagues and Delegates,

Welcome to the 23rd Annual conference of Informing Science + IT Education.

Thank you all for submitting your papers and attending the presentations. While this is our 23rd annual event, it is our first in a virtual space. We hope that, despite the boundaries of time and space, you will find this conference useful and informative. We further hope that future conferences will return to our normal mode of operation.

The theme of this conference was Digitally Integrated Scholarship. This may have been prophetic given that now, not only is this conference solely reliant on digital technology to operate, but our lives also, no matter who we are or where we are, are now far more reliant on digital technology for work and for pleasure than they were just three months ago. The world is now in a different place, and Digitally Integrated Scholarship is now the staple for most of our working lives.

I look forward to meeting many of you online, and again, once more in person at our next annual conference.

A handwritten signature in black ink, appearing to be 'MJ' with a long horizontal stroke extending to the right.

Michael Jones
Conference Chair

IⁿSITE 2020 Conference Chair



Michael Jones

Associate Professor, Faculty of Business
University of Wollongong
Wollongong, NSW, Australia

Keynote



T. Grandon Gill

President, Informing Science Institute and
Professor, University of South Florida
Tampa, FL, USA

Prior IⁿSITE Conference Chairs

- 2001 Andrzej Zaliwski (Poland)
- 2002 Cormac J. Sreenan (Ireland)
- 2003 Kalle Kangas (Finland)
- 2004 Russel Stonier, Kevin Tickle, Wal Taylor, & Stewart Marshall (Australia)
- 2005 Mason Gerety & Tom Knights (USA)
- 2006 Carole Roberts & Janice Whatley (UK)
- 2007 Mojca Indihar Štemberger & Maks Tajnikar (Slovenia)
- 2008 Dimitar Christozov & Stoyan Denchev (Bulgaria)
- 2009 Alex Koohang (USA)
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- 2012 Raafat Saade & Fassil Nebebe (Canada)
- 2013 Luis Borges Gouveia (Portgual)
- 2014 Michael Jones (Australia)
- 2015 T. Grandon Gill & Manish Agrawal (USA)
- 2016 Rimvydas Skyrius (Lithuania)
- 2017 Mathews Nkhoma, Beverley Webster, & Susan Thomas (Vietnam)
- 2018 Seta Boghikian-Whitby & Yehia Mortagy (USA)
- 2019 Dan Bouhnik & Yahel Giat (Israel)

Schedule Overview

(Times shown are UTC)

Tuesday, July 7, 2020

11:00-11:45 **Opening Remarks**
..... T. Grandon Gill, President, Informing Science Institute
..... Michael Jones, Conference Organizer

12:00-13:45 Paper Presentations

14:00-15:45 Paper Presentations

16:00-17:45 .. **Keynote: What is Informing Science?**
..... T. Grandon Gill, President, Informing Science Institute

18:00-19:45 .. **Workshop: Writing Research Papers**
..... T. Grandon Gill

Wednesday, July 8, 2020

8:00- 9:45 Paper Presentations

10:00-11:45 Invited Presentations
J. Jelsey and A. Zaliwski
FREEOS: Application of Direct Democracy Applied to Blockchain Based Economics
Changing Business Education Paradigm Toward Sustainable Solutions Based on Maori Business Practice

12:00-13:45 Paper Presentations

14:00-15:45 **Workshop: Online Badges**
..... Terry McGovern

16:00-17:45 Paper Presentations

18:00-19:45 Paper Presentations

20:00-20:30 **Closing Remarks**

About the Informing Science Institute

Informing science is the transdisciplinary study of systems that employ information to impact clientele. The mission of the *Informing Science Institute* is as follows:

- Support transdisciplinary research that furthers our understanding of the construction and evolution of systems that inform, providing free and open access to such research,
- Foster communication among disciplines that study informing and education, and
- Nurture a supportive global community of informing science researchers through mentorship and through providing opportunities and venues for collaboration.

The *Informing Science Institute's (ISI)* primary reason for existence is to promote the advancement of the informing science transdiscipline across the global research community. Three principles guide the ISI's research and publication agenda:

- *Open access:* All ISI publications, including conference proceedings, journals, repository contents and books, shall be accessible in their electronic form at no cost to readers.
- *Global outreach:* The ISI's research agenda shall always be framed with the global community in mind, and shall not be limited by the perceptions and priorities of a particular nation.
- *Mentorship:* Helping researchers develop and refine their craft is as central to ISI's philosophy as providing outlets for the efforts of established researchers. This mentorship mission applies to both the conferences run by ISI and to the review and publication policies of its journals.

Join us in making academic better and more inclusive. Put your skills and abilities to work to help your colleagues and to build a better academy.

List of Journals Published by Informing Science

Informing Science: The International Journal of an Emerging Transdiscipline
..... <http://inform.nu>

Journal of Information Technology Education:

Research <http://jiteresearch.org>

Innovations in Practice <http://jitellP.org>

Interdisciplinary Journal of Information, Knowledge, and Management
..... <http://ijikm.org>

Interdisciplinary Journal of e-Skills and Lifelong Learning <http://ijell.org>

International Journal of Doctoral Studies <http://ijds.org>

Issues in Informing Science and Information Technology <http://iisit.org>

Journal for the Study of Postsecondary and Tertiary Education
..... <http://jspte.org>

Collaborative Journals

Muma Case Review <http://MumaCaseReview.org>

Muma Business Review <http://MumaBusinessReview.org>

International Journal of Community Development and Management Studies
..... <http://IJCDMS.org>

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our governing body



T. Grandon Gill, Michael Jones Mathews Nkhoma, Meg Murray
Fay Sudweeks, Jorge Pérez, Elizabeth (Betty) Boyd, Eli Cohen

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Proceedings Papers - Overview

Copies of individual papers can be downloaded from the *2020 Informing Science & Information Technology Education Conference Proceedings* at <http://www.informingscience.org/Conferences/InSITE2020/Proceedings>

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Review Process

Unless otherwise noted in the paper, all papers were reviewed blindly (that is, with author and affiliation information removed) by a panel of three or more external reviewers. The reviewers did not know the identity of the authors nor the authors the identity of the reviewers. Reviewers were matched to papers using a formula to minimize the cognitive distance between reviewers' stated expertise and interest and the topics covered in the paper.

Reviewers were instructed to mentor the authors by providing feedback on how to improve the submission. They were further required to recommend whether or not the paper should be accepted using a nine-point scale (from "reject" to "must accept").

Selected proceedings papers were revised and published in the 2020 volume of one of the Informing Science Institute journals.

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