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The 20th IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology
 14 - 17 December 2021 | Melbourne, Australia
 A Hybrid Conference with both Online and Offline Modes

20 YEARS ANNIVERSARY | **WI-IAT 20th Anniversary**

<https://www.wi-iat.com/>

IEEE | IEEE Computer Society | ACM Association for Computing Machinery | Swinburne University of Technology | Deakin University | PIASAT Serve The Earth & Space Community

Highlighted Keynote Speakers in the Past WI-IAT Editions

Edward Feigenbaum (Turing Award Laureate) WI-IAT 2001

Lotfi A. Zadeh WI-IAT 2003

John McCarthy (Turing Award Laureate) WI-IAT 2004

Tom Mitchell WI-IAT 2004

Richard M. Karp (Turing Award Laureate) WI-IAT 2007

Yuichiro Anzai WI-IAT 2011

Edward Feigenbaum (Turing Award Laureate) WI-IAT 2012

John Hopcroft (Turing Award Laureate) WI-IAT 2013

Andrew Chi-Chih Yao (Turing Award Laureate) WI-IAT 2014

Joseph Sifakis (Turing Award Laureate) WI-IAT 2015

Butler Lampson (Turing Award Laureate) WI 2016

Leslie Valiant (Turing Award Laureate) WI 2016

Raj Reddy (Turing Award Laureate) WI 2017

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2019: **Georg Gottlob**,
Oxford University,
UK



2018: **Yong Shi**,
Chinese Academy of
Sciences, China



2017: **Raj Reddy**,
Carnegie Mellon
University, USA



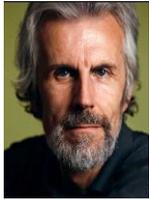
2017: **Tom Mitchell**,
Carnegie Mellon
University, USA



2016: **Leslie Valiant**,
Harvard University,
USA



2015: **Francis Heylighen**,
Free University of Brussels,
Belgium



2015: **Joseph Sifakis**,
EPFL, Switzerland



2014: **Andrew Chi-Chih
Yao**, Tsinghua University,
China



2014: **Karl Friston**,
University College
London, UK



2013: **John Hopcroft**,
Cornell University, USA



2012: **Edward Feigenbaum**,
Stanford University,
USA



2011: **Jeffrey Bradshaw**,
Institute for Human &
Machine Cognition, USA



2010: **Nick Cercone**,
York University,
Canada



2009: **John R. Anderson**,
Carnegie Mellon University,
USA



2008: **Hiroshi Motoda**,
Osaka University,
Japan



2007: **Dieter Fensel**,
University of Innsbruck,
Austria



2006: **Benjamin Wah**,
University of Illinois at
Urbana-Champaign, USA



2005: **Setsuo Ohsuga**,
University of Tokyo,
Japan



2004: **John McCarthy**,
Stanford University,
USA

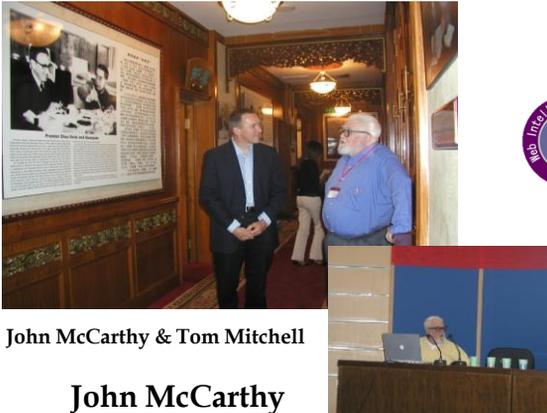


2003: **Lotfi A. Zadeh**,
University of California,
Berkeley, USA





WI-IAT'04 Towards Human-Level AI



John McCarthy & Tom Mitchell

John McCarthy
1971 Turing Award Winner
WI-IAT'04 Keynote Speaker



Human-level AI will be achieved, but new ideas are almost certainly needed, so a date cannot be reliably predicted—maybe five years, maybe five hundred years. I'd be inclined to bet on this 21st century.

-- John McCarthy, *From here to human-level AI*



WI-IAT'12 Turing Web Intelligence with Spectrums of AI



Edward Feigenbaum
1994 Turing Award Winner
WIC Advisor



**T-Centenary Panel on
Top 10 Questions in Intelligent Informatics & Computing**
*To promote and expedite new innovations
for areas under intelligent informatics*



WI'16-BI'16 Joint Panel on Connecting Network and Brain with Big Data



Panel Chairs

Yong Shi, **University of Nebraska at Omaha**
Chinese Academy of Sciences

Ning Zhong, **Maebashi Institute of Technology**
Beijing University of Technology



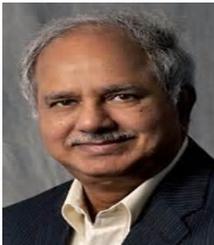
Panelists

Giorgio Ascoli, **George Mason University**
Butler Lampson, **Microsoft & MIT (Turing Award 1992)**
Hanchuan Peng, **Allen Institute for Brain Science**
Vijay Raghavan, **University of Louisiana at Lafayette**
Ivan Soltesz, **Stanford University**
Leslie Valiant, **Harvard University (Turing Award 2010)**

12:20-14:00, Oct 14, 2016,
Hilton Omaha, USA



WI'17 The Ultimate Web Intelligence: Computational Social Science



Computer Science and Artificial Intelligence must embrace
CSS as the next frontier in Web Intelligence and **Web
Intelligence and WIC need to be at the forefront of
inventing that future.**

-- **Keynote** WI 2017, Aug 23-26, Leipzig, Germany

Turing Keynote Speaker
Raj Reddy
(1994 Turing Award)
Carnegie Mellon University



WI'18 Panel on Computational Social Science as the Ultimate Web Intelligence



Panel Chairs

Ning Zhong, [Maebashi Institute of Technology](#)
[Beijing University of Technology](#)

Jiming Liu, [Hong Kong Baptist University](#)



Panelists

Yiu-ming Cheung, [Hong Kong Baptist University](#)

Amit Sheth, [Wright State University](#)

Dominik Slezak, [Warsaw University](#)

Juan D. Velasquez Silva, [University of Chile](#)



WI'19 Panel on WI = AI in the Connected World



Panel Chairs

Ning Zhong, [Maebashi Institute of Technology](#)

Jiming Liu, [Hong Kong Baptist University](#)



Panelists

Payam Barnaghi, [University of Surrey](#)

Georg Gottlob, [University of Oxford](#)

Yuefeng Li, [Queensland University of Technology](#)

Athena Vakali, [Aristotle University of Thessaloniki](#)

Osmar Zaiane, [University of Alberta](#)





Home Conference Submission Organization Participation Sponsorships

WI-IAT Virtual Conference

The 2020 IEEE/MIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT'20)
14-17 December 2020 - A Fully Virtual Conference

IEEE
SWINBURNE UNIVERSITY OF TECHNOLOGY
IEEE computer society
UNIVERSITY OF MELBOURNE
acm Association for Computing Machinery
DEAKIN UNIVERSITY
Intelligence Computing 2002
PIESAT Serve The Earth & Space Community

Keynote Speech



Uwe Aickelin

Head of School of Computing and Information Systems
Melbourne School of Engineering

Title: Artificial Intelligence for Medical Datamining and Decision Support



Phoebe Chen

Professor and Chair, Department of Computer Science and Information Technology
La Trobe University

Title: Artificial Intelligence for Patterns Discovery in Bioinformatics



Keynote Speech



Xinghuo Yu
Associate Deputy Vice Chancellor
RMIT University

Title: Synergetic Interplay between Artificial Intelligence and Complex Networks



Boi Faltings
Full Professor, Artificial Intelligence Laboratory
Ecole Polytechnique Fédérale de Lausanne (EPFL)

Title: The Quest for Privacy-Preserving AI



Keynote Speech



Andre Van Zundert
Professor & Chairman Discipline of Anesthesiology
The University of Queensland

Title: COVID-19 – Lessons Learnt from COVID-19 and the New Normal as I See It



Xiaojun Chen
Chair Professor, Co-Director of CAS AMSS-PolyU joint
Laboratory in Applied Mathematics
Director of University Research Facility in Big Data Analytics
The Hong Kong Polytechnic University

Title: Nonsmooth Nonconvex Optimization in Deep Learning



Keynote Speech



Philip S. Yu

Professor and the Wexler Chair in Information Technology at the Department of Computer Science
University of Illinois at Chicago

Title: Broad Learning: A New Perspective on Mining Big Data



Hans-Arno Jacobsen

Professor of Computer Engineering and Computer Science
University of Toronto

Title: Deconstructing Blockchains: Concepts, Applications and Systems



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Logos: IEEE, IEEE Computer Society, Association for Computing Machinery (ACM), Deakin University, Web Intelligence and Intelligent Agent Technology (WI-IAT) 2002, PIESAT (Serve The Earth & Space Community), Swinburne University of Technology.



WI-IAT2021

WI = AI in the Connected World



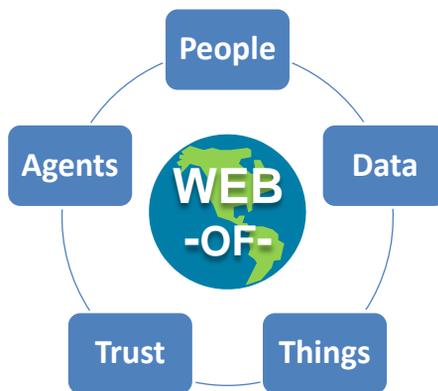
WI-IAT2021

WI = AI in the Connected World



Relevant topics include but are not limited to:

- ◆ Track 1: Web of People
- ◆ Track 2: Web of Data
- ◆ Track 3: Web of Things
- ◆ Track 4: Web of Trust
- ◆ Track 5: Web of Agents
- ◆ Special Track: Emerging Web in Health and Smart Living



WI-IAT 20th Anniversary Celebration

- WI-IAT '20 Virtual Conference
- WI '19 in Thessaloniki, Greece
- WI '18 in Santiago de Chile
- WI '17 in Leipzig, Germany
- WI '16 in Omaha, USA
- WI-IAT '15 in Singapore
- WI-IAT '14 in Warsaw, Poland
- WI-IAT '13 in Atlanta, USA
- WI-IAT '12 in Macau, China
- WI-IAT '11 in Lyon, France
- WI-IAT '10 in Toronto, Canada
- WI-IAT '09 in Milano, Italy
- WI-IAT '08 in Sydney, Australia
- WI-IAT '07 in Silicon Valley, USA
- WI-IAT '06 in Hong Kong
- WI-IAT '05 in Compiègne, France
- WI-IAT '04 in Beijing, China
- WI-IAT '03 in Halifax, Canada
- WI-IAT '01, Maebashi, Japan



Organization



WIC Steering Committee Chairs



Ning Zhong

Maebashi Institute of Technology, Japan



Jiming Liu

Hong Kong Baptist U., HK, China

Organizing Committee General Chairs



Jing He

Swinburne U. Technology, Australia



Rainer Unland

U. Duisburg-Essen, Germany



Eugene Santos Jr.

Dartmouth College, USA

Program Committee Chairs



Xiaohui Tao

U. Southern Queensland, Australia



Hemant Purohit

George Mason U., USA



Willem-Jan van den Heuvel JADS Research, The Netherlands



John Yearwood

Deakin University, Australia

WI-IAT 20th Anniversary Events

20Y Events Chairs



Yuefeng Li

Queensland U. Technology, Australia



Gabriella Pasi

U. Milano-Bicocca, Italy



- ◆ WI-IAT Twenty-Year Most Influential Paper Award 2021
- ◆ Web Intelligence Journal Special Issue: 20 Years of WI-IAT Keynotes
- ◆ World Wide Web Journal Special Issue on
Web Intelligence = Artificial Intelligence in the Connected World
- ◆ Web Intelligence = AI in the Connected World (Springer Monograph)



Association for Computing Machinery



IEEE computer society



Journal Opportunities

Possible Post Conference Publication for the Extended High-Quality Conference Papers



- ◆ **Web Intelligence Journal (IOS Press)**
- ◆ **World Wide Web Journal (Springer Nature)**
- ◆ **International Journal of Information Technology & Decision Making (World Scientific)**
- ◆ **Concurrency and Computation: Practice and Experience (Wiley)**
- ◆ **Information Sciences (Elsevier)**
- ◆ **Future Generation Computer Systems (Elsevier)**
- ◆ **IEEE Transactions on Fuzzy Systems (IEEE Press)**



Association for
Computing Machinery



World Wide Web Journal, Springer,
Special Issue on
Web Intelligence = AI in the Connected World



Guest Editors

Yuefeng Li, Queensland University of Technology, Australia

Amit Sheth, University of South Carolina, USA

Athena Vakali, Aristotle University of Thessaloniki, Greece

Xiaohui Tao, University of Southern Queensland, Australia

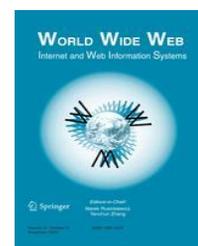
IMPORTANT DATES

Manuscript submission deadline: 31 May **2021**

First round notification with reviewer comments: 31 July **2021**

Second round submission: 15 September **2021**

Final acceptance notification: 31 October **2021**



Web Intelligence Journal, IOS Press

Editors-in-Chief

Yuefeng Li, Queensland University of Technology, Australia

Amit Sheth, University of South Carolina, USA

Athena Vakali, Aristotle University of Thessaloniki, Greece



Main Theme: WI = AI in the Connected World

Tracks

- Web of People
- Web of Data
- Web of Things
- Web of Trust
- Web of Agents
- Emerging Web in Health and Smart Living



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