



Program, April 4 2017, De Balie, Amsterdam, The Netherlands

13.30-14.00 *Registration, coffee, networking*

14.00-14.05 **Start program Salon - Welcome**

Einar Fredriksson, Founder IOS Press

14.05-14.15 **"Through the Looking Glass"**

Arnoud de Kemp, CEO AKA Verlag, Berlin

Life Sciences session

14.15-14.20 **Introduction of Speakers**

Arnoud de Kemp, CEO AKA Verlag, Berlin



Bio: Arnoud is Co-Editor-in-Chief of the journal 'Information Services and Use'. He is a publisher with a long history in the industry and has been the organizer of the Academic Publishing in Europe (APE) conference series since 2005. He is also director of AKA Verlag in Berlin with books in Computer Sciences and AI, working closely together with IOS Press. Previously he worked for Springer (now Springer Nature), lately as a Member of the Board, responsible for sales, marketing, licensing and new media. SpringerLink is one of his babies.. The born Dutchman lives in Berlin.

14.20-14.35 **Journal of Alzheimer's Disease (JAD) Highlights**

George Perry, Editor-in-Chief JAD



Bio: Prof. George Perry is a neuroscientist and Dean of the College of Sciences and Professor of Biology at the University of Texas at San Antonio. Perry is recognized in the field of Alzheimer's disease research particularly for his work on oxidative stress. He is distinguished as one of the top Alzheimer's disease researchers with over 1000 publications, one of the top 100 most-cited scientists in Neuroscience & Behavior and one of the top 25 scientists in free radical research. He has been the Editor-in-Chief of the *Journal of Alzheimer's Disease* for almost 20 years. ([https://en.wikipedia.org/wiki/George_Perry_\(neuroscientist\)](https://en.wikipedia.org/wiki/George_Perry_(neuroscientist)))

Will discuss JAD's highlights over the years and what makes JAD special to the scientific community. Amongst the highlights are its explosive growth, the Impact Factor, its rotating editorial board policy, the annual Alzheimer Award, the related book series with its special editions on highly-ranked research, the scientometrics analysis (Top 100, Top 50), its website with special features, the newly launched OA sister publication *JAD Reports* this 2017, and the upcoming 20th anniversary in 2018.

14.35-14.50

Altmetrics

Aaron Sorensen, ÜberResearch, Scientometrics Editor JAD



Bio: Aaron Sorensen is the Bibliometrics Engagement Leader for ÜberResearch. Before this, he worked at Temple University School of Medicine where his research centered on the analysis of large datasets to gain an understanding of the roles collaboration and competition play within the context of scientific discovery. Prior to Temple, Aaron held similar positions at Johns Hopkins University, GE Healthcare, Collexis, and Elsevier. Aaron currently serves as the inaugural Scientometrics Editor for the *Journal of Alzheimer's Disease* and lives with his family in Philadelphia, PA, in the USA.

Will discuss altmetrics as a new measurement for analyzing the impact of breaking research results. Citations may take up to a year to be representative of how impactful a work is on the scientific community, but immediate impact may be measured by prominence in news outlets and social media. Whether altmetrics accurately predict a paper's relevancy with the research community is currently under exploration, for instance in this recent paper regarding Altmetric's highest measured papers in Parkinson's Disease: <http://content.iospress.com/articles/journal-of-parkinsons-disease/jpd179000>.

14.50-15.05

The Reproducibility Crisis in Biomedical Research

Tim Clark, Assistant Professor of

Neurology at Harvard Medical School



Bio: Tim Clark, Ph.D., is a researcher in biomedical informatics and computer science. He is Assistant Professor of Neurology at Harvard Medical School, Director of Informatics at the MassGeneral Institute for Neurodegenerative Disease, and co-director of the Data and Statistics Core at the Massachusetts Alzheimer Disease Research Center. His research focuses on computational target discovery, evidence networks, and reproducibility.

Will discuss computational approaches to resolving the reproducibility crisis in biomedical research, including the role of data citation and formal graph models of evidence, and will discuss work he leads at the Center for Alzheimer's Therapeutic Science incorporating some of these ideas.

15.05-15.20

Euretos' Knowledge Platform

Arie Baak, Co-Founder Euretos



Bio: Arie Baak is co-founder of Euretos, a company that enables researchers at world leading pharma, biotech and academic institutions to accelerate life sciences research. For over 20 years, Arie has been deeply involved in big data analytics solutions in the high performance mobile telecoms & internet infrastructure market. For the past 5 years, he has been focusing on translating this experience in the development of productized analytics solutions to support life scientists in their R&D efforts.

Will discuss the main philosophy behind Euretos' Knowledge Platform: How can the integration of millions of biological annotations be leveraged to discover more effectively the molecular mechanisms underlying biological phenomena such as disorders?

15.20-15.40

Discussion

15.40-16.00

Coffee break

AI and Data Science session

16.00 **Opening of AI and Data Science Session** **Einar Fredriksson, Founder IOS Press**

16.05 **Introduction of Speakers** **Patrick Martinent, CTO Newgen**



Bio: Patrick Martinent is a technical leader and product architect, with experience in retail, enterprise workflows and publishing. He has built and sold a number of companies around outsourcing, linux, and cloud computing. He recently sold his cloud computing company and has joined the executive team at Newgen to spearhead product innovation and development in publishing. Patrick lives in Chennai, South India, with his wife and two teenage daughters. Currently he is exploring machine learning applications in the scholarly publishing domain.

16.10-16.25 **The Semantic Web** **Frank van Harmelen, VU, Amsterdam**



Bio: Frank van Harmelen is a Professor in Knowledge Representation & Reasoning in the Computer Science department (Faculty of Science) at the Vrije Universiteit Amsterdam. His research interests include artificial intelligence, knowledge representation and the semantic web, approximate reasoning and Medical Protocols. He was one of the co-designers of the Web Ontology Language (OWL) and the Ontology Inference Layer (OIL), and has published books on meta-level inference, on knowledge-based systems, and on the Semantic Web.

Addresses how the Semantic Web helps improve and change scientific communications by no longer having individual 'islands' of datasets but a web of connected data, enriched with semantic annotation. This makes it easier to find, combine and reuse data from multiple sources in order to accelerate scientific discoveries.

16.25-16.40 **The Data Shift** **Joost Kok, Leiden University**



Bio: Joost Kok is a Professor in Computer Science and also Professor in Medicine at Leiden University. He is an expert in the field of processing and analyzing data. He helps scientists to develop new treatments, aids the government in discovering potential fraudulent health insurance claims and advises the Ministry of Transport on monitoring the condition of bridges from a distance. His research is concentrated around the themes (scientific) data and model management, data mining, bioinformatics and algorithms.

Will discuss the 'Data Shift'. Not only text is published, but also data and methods. In fact, text is also data. One can distinguish different kinds of publications: person oriented (e.g. Google Scholar), data oriented (e.g. Scientific Data), method oriented (e.g. openML). Prof. Dr. Kok will explain how data consumption shifts from Humans to Computers and what the consequences of this shift are. Reproducibility, Responsible Data Science and Fairness are all issues of concern.

16.40-16.55

Linked Data Publishing with Nanopublications

Tobias Kuhn, VU, Amsterdam



Bio: Tobias Kuhn is assistant professor at VU University Amsterdam where he works on the Semantic Web, social systems, controlled natural languages, artificial intelligence, computational linguistics, and bioinformatics. He has a special interest in nanopublications; single, attributable and machine-readable assertions in scientific literature. Together with Prof. Dr. Michel Dumontier he is Editor-in-Chief of the new (2017) IOS Press publication *Data Science*, an open access and open peer review journal.

When we think about scientific publishing, we mainly think about papers published in journals or proceedings. This publishing model, however, doesn't seem to work very well for datasets, which have become increasingly important in many areas of science. Instead of treating datasets like papers, couldn't we put the data first by allowing scientists to directly publish data entries that represent their results? Nanopublications are an approach in this direction that builds upon the recent maturation of Linked Data technologies and proposes an entirely new paradigm for the future of scholarly communication.

16.55-17.10

AI and Ethical Aspects

Zoltán Szlávik, IBM Center for Advanced Studies, Benelux



Bio: Zoltán Szlávik leads IBM's Center for Advanced Studies in the Benelux, a Research and Innovation department in which IBM researchers study (enterprise) crowdsourcing, nichesourcing and cognitive computing and apply these concepts on real-world industrial challenges in prototypes and first-of-a-kind implementations. Zoltán Szlávik's research interests include Data Mining, Machine Learning, Recommender Systems, Text Summarisation, and Information Retrieval with a particular interest in research with a social impact.

Will discuss human (human computation, crowdsourcing) and sensor input and processing these using Artificial Intelligence, and relating these to ethical aspects.

17.10-17.30

Discussion and wrap up

Evening program

17.30

Start Drinks

Foyer, De Balie

18.15

Evening Welcome Speech

Einar Fredriksson

18.30

Start First Course Walking Dinner

22.00

End