SIGMIS ANNUAL REPORT JULY 2020 - JUNE 2021

Submitted by: Cindy Riemenschneider SIG Chair

1. Comment on the ways in which the SIG is a healthy and viable organization

Overall, the ACM SIGMIS has felt the disruptive effects of the global pandemic as have many academic organizations and institutes of higher education. Nonetheless, we retain a core group of active and contributing members and a nucleus of strong and continuing programs.

In 2020, *The DATA BASE for the Advances in Information Systems* (our SIG publication) received 89 submissions from 25 different countries across the globe. A total of 40 manuscripts were accepted for publication, and 122 different reviewers assisted with the editorial process.

2. **Describe your efforts related to Diversity, Equity, and Inclusion**.

We have conducted, as best we can, conferences based in Germany for 2020 and 2021.

We also planned our on-line conference to run for approximately 20 hours on one day so that presenters and participants could log on as fitting within their time zone. Three attendees persisted through the whole marathon.

3. **Awards Given**

SIGMIS Lifetime Achievement Award:

This year the SIGMIS Lifetime Achievement award was presented to **Dr. Eileen Trauth,** Professor Emerita Pennsylvania State University, USA. This represents the third time the SIG has presented the award.

The award was presented at our virtual conference in June. The announcement has been posted to our website (see Appendix A).

SIGMIS Early Career Award:

This year we inaugurated the inaugural Early Career award and presented it to **Manuel Wiesche**, TU Dortmund University, Germany.

The announcement was posted on our website (see Appendix B).

SIGMIS CPR Conference Awards:

- **2020 Magid Igbaria Outstanding Conference Paper of the Year Award Recipients**

- Katharina Pflügner, Annalena Baumann, and Christian Maier received this years' award for their article "Managerial Technostress: A Qualitative Study on Causes and Consequences."

The DATABASE for Advances in Information Systems

Annual awards, Vol. 51.

Each year, DATA BASE undertakes a nomination of Best Paper to the AIS Senior Scholar's competition. This year, covering the content from Vol. 51, our Pre-Eminent Editorial Board members voted in favor of the following:

Best Paper:

Gerster, D., Dremel, C., Brenner, W. and Kelker, P. (2020). How enterprises adopt agile forms of organizational design: A multiple-case study. *The DATA BASE for Advances in Information Systems, 51* (1), 84-103.

Daniel Gerster (daniel.gerster@student.unisg.ch; daniel.gerster@isg-one.com) is a research associate at the Institute of Information Management (IWI-HSG) at the University of St.Gallen, Switzerland, and Director at Information Services Group (ISG) in Munich, Germany. He holds a M.Sc. in economics from the University of Bonn, Germany. His research focuses on enterprise agility and has been presented at conferences such as the International Conference on Information Systems (ICIS), European Conference on Information Systems (ECIS), and Hawaii International Conference on System Sciences (HICSS). At ISG, he consults leading global enterprises in questions of digital strategy and digital technologies. Before joining ISG, he was Principal and global CIO at Roland Berger in Munich, Germany.

Christian Dremel (christian.dremel@uni-bamberg.de) is a guest lecturer at the University of Bamberg, Germany and (technical) lead for advanced analytics at the Brose group in Bamberg, Germany. He holds a Ph.D. from the University of St.Gallen, Switzerland. His research focuses on the successful adoption and assimilation of analytics and agility. In particular, he investigates the organizational transformations (e.g., organizational structures, governance mechanisms, and capabilities) required to profit from analytics and artificial intelligence approaches. His research has been published in journals such as *Information and Management*, *MIS Quarterly Executive* (MISQE), *Electronic Markets*, and the *Journal of Information Technology Teaching Cases*, and presented at conferences such as the International Conference on Information Systems (ICIS).

Walter Brenner (walter.brenner@unisg.ch) joined St.Gallen University in 2001 after having held chairs at the University of Essen (Germany) and Freiberg University of Mining and Technology (Germany). He earned a graduate degree in business administration and a doctorate from the University of St.Gallen. His research focuses on information management, consumer data, innovation, and digital industrial services. He has authored and edited 30 books and more than 300 publications. Dr. Brenner also practices as a consultant and is an entrepreneur. Prior to joining academia, he was Head of Application Development at Alusuisse-Lonza AG (Switzerland).

Prashant Kelker (prashant.kelker@isg-one.com) is Partner at Information Services Group (ISG) and heads ISG's Digital Strategy and Solution practice in the US. He works with enterprises to shape their operating models for a digital journey and brings 20 years of expertise in all aspects of applications and platforms, from designing transformations through the whole sourcing lifecycle. Prashant's experience spans a range of industries, including financial services, telecom and media, automotive and utilities, and a range of geographies, including Europe, the Americas and India. His research focus addresses topics of enterprise agility.

Runner-up to best Paper:

Rutschi, C., & Dibbern, J. (2020). Towards a Framework of Implementing Software Robots: Transforming Human-executed Routines into Machines. *The DATABASE for Advances in Information Systems*, 51(1), 104-128.

Corinna Rutschi is a Ph.D. student of information systems at the Institute of Information Systems at the University of Bern, Switzerland. She previously worked in consulting at IBM Switzerland. She received her master's degree in information systems from the University of Bern, Switzerland. Her current research focuses on software robots, their implementation, and the interplay of humans and machines. She has published in conference proceedings of the Hawaii International Conference on System Science.

Jens Dibbern is Professor of Information Systems at the University of Bern, Department of Business Administration in Switzerland. His research focuses on IT sourcing, platform ecosystems, system implementation/use, and distributed collaboration. His publications appeared in Information Systems Research (ISR), Management Information Systems Quarterly (MISQ), Journal of Management Information Systems (JMIS), Journal of the Association of Information Systems (JAIS), and others. He has served on the editorial boards of MISQ and ACM SIGMIS Database and currently serves as senior editor of JAIS and MISQ Executive; he is also department editor of Business & Information Systems Engineering (BISE)

Also, each year, the Editors of DATA BASE analyze production statistics to identify candidates for Best Senior Editor and Best Reviewer. This year's award winners are:

Best Senior Editor: Mark Gillenson

Mark L. Gillenson is Professor of Business Information and Technology (formerly MIS) in the Fogelman College of Business and Economics of the University of Memphis in Memphis, TN. Dr. Gillenson handled a higher-than average manuscript load in 2020 and was extremely timely in his assignments under very uncertain circumstances.

Best Reviewer: Vladimir Ambartsoumian

Vladimir Ambartsoumian is an Instructor in the Department of Business Information and Technology at The University of Memphis, Fogelman College of Business. Dr. Ambartsoumian undertook a larger than average number of review assignments and was timely and thorough in his assessment of the assigned manuscripts.

Runner-up to best reviewer: Rene Moquin

Rene Moquin is an Assistant Professor at the Department of Information Systems of Northeastern State University in Broken Arrow, OK. Dr. Moquin once again undertook a larger than average number of review assignments and was both developmental and thorough in his assessment of the assigned manuscripts.

The editors-in-chief would like to thank all our senior editors, reviewers, and authors – without whom we could not produce the quality and innovation that our readership has come to expect. It is with much gratitude that we look forward to another year of *The DATABASE for Advances in Information Systems.*

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4. List significant papers on new areas that were published in proceedings

Understanding Boundaryless IT Professionals: An Investigation of Personal Characteristics, Career Mobility, and Career Success
Authors: Barbara Prommegger, Daniyal Arshad, Helmut Krcmar
SIGMIS-CPR'21: Proceedings of the 2021 on Computers and People Research Conference
June 2021 Pages 51–59,

https://doi.org/10.1145/3458026.3462162

ABSTRACT
Shifts in the evaluation of career success and an increase in boundary-spanning activities in the IT profession pave the way for new career models in IT. Instead of opting for a technical or managerial career in IT, more and more IT professionals follow boundaryless career forms, i.e. IT careers that do not correspond to a horizontal career path but allow career transitions between organizations and sectors. To better understand this trend, we examine three boundaryless IT professional groups-late-entry IT professionals, boomerang IT professionals, and IT leavers. Investigating German socio-economic panel data, we examine their personal characteristics, career mobility patterns, and career success factors. We find a high proportion of IT professionals following boundaryless careers, demonstrating that IT is becoming increasingly open to transition from and to other sectors. We also discuss the high proportion of women in boundaryless IT careers, thus illustrating alternative career paths for women in IT. Finally, we show that boundaryless IT professionals tend to have a higher workload in IT jobs than in non-IT jobs, yet, simultaneously, earn more and exhibit higher life satisfaction. Our study contributes to a better understanding of boundaryless IT careers.

Emancipatory Data Science: A Liberatory Framework for Mitigating Data Harms and Fostering Social Transformation
author -- Thema Monroe-White
SIGMIS-CPR'21: Proceedings of the 2021 on Computers and People Research Conference
June 2021, pp 23–30
https://doi.org/10.1145/3458026.3462161

ABSTRACT
The cross-cutting and interdisciplinary nature of data work has created an opportunity to engage more students from diverse backgrounds in data science and has expanded pathways for entry for future data professionals. However, without greater representation of Black, Indigenous, and other marginalized people of color in data science, we risk reinforcing existing systems of differentiated power that oppress as opposed to empower these groups. In this paper, the term emancipatory data science is coined to highlight the unique contributions of individuals who use their expertise to mitigate data harms for minoritized, and marginalized populations and to suggest a way forward for the data science workforce and research community given our increasingly algorithmic society.

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5. Describe conference activity

     See Appendix C for summary information of recent conferences. The 2021 conference was held in a virtual format. Twenty-five papers were submitted and 15 were accepted for the conference, a 67% acceptance rate. Due to the virtual modality, there were no poster sessions or panels. The opportunity to submit research in these two formats was not offered in the CFP because of the virtual modality.

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6. Comment on special projects and non-conference programs that provided service to some part of your technical community

Research grant award:

The grant awards for 2019-2020 are listed below:

Sang Hoo Oh, so17c@my.fsu.edu

The Impact of AI on Information Systems Workforce

barbara.prommegger@tum.de and helmut.krcmar@tum.de

An Investigation of Employees Without IT Background Working in IT Jobs

katharina.pfluegner@uni-bamberg.de and christian.maier@uni-bamberg.de

Managerial technostress: A qualitative study of causes and coping behavior

We postponed executing the research grant award program for 2020-21 due to the pandemic.

Our 2021-22 Committee members have not yet been appointed.

Doctoral Consortium

This year while moving the annual conference online, we also moved the doctoral consortium into a virtual mode.

The leadership team was comprised of five co-chairs who both organized and facilitated the 2021 Doctoral Consortium:

- Deborah Armstrong (djarmstrong@business.fsu.edu)
- Andreas Eckhardt (andreas.eckhardt@ggs.de)
- Indira Guzman (indira.guzman@trident.edu)
- Michelle Kaarst-Brown (mlbrow03@syr.edu)
- Tim Weitzel (tim.weitzel@uni-bamberg.de)
- Fred Niederman (fred.niederman@slu.edu) also participated in the session

Presentations were by the following one doctoral student participant:

    Title: AI-based recommendations to support individuals' decision making processes
    Candidate: Jessica Ochmann
    Affiliation: Friedrich-Alexander University Erlangen-Nürnberg, Germany
    Supervisor: Prof. Dr. Sven Laumer

ICIS community involvement
We continue to co-sponsor the ICIS conference each December where we support the best doctoral dissertation in information systems award, host a reception, and staff a booth primarily to promote our publication, DATABASE. Of course, this year we were unable to do this as the conference was moved online.

We did, however, sponsor the annual MIS dissertation award presented as detailed below.

Winner: Jeffry Mullins, University of Arkansas, USA

Dissertation: Getting Serious about Games: A Study of Work and Play through Information Systems

7. A very brief summary of the key issues that SIG membership will have to deal with in the next 2-3 years.
Finances

Over the past 20 years due to strong revenues from the digital library, modest annual profits from our annual conference, and frugal management of expenses the SIG achieved significant budget surpluses. However, this may have come at the cost of less than needed reinvestment in new programs and services. Over the past 3 years we have budgeted for investing in stronger support for our publication,

greater support for doctoral student travel to our conference, new awards, and a new research grant. This has resulted in stronger conference attendance, a stronger publication, and enthusiasm for our programs. However, at some point the current investments will need to be used, at least in part, to enhance current revenue streams or create new ones. We still have a significant amount of funds available for continued investment, but in the long run this will need to be of concern to the SIG leadership.

The DATABASE for Advances in Information Systems

Our publication, The DATABASE for Advances in Information Systems, continues a concerted marketing campaign of research conference visibility focused on impact and intellectual innovation. We have distributed 4 issues regularly for many years. We plan to add 5th issues for the next two coming years. Our current co-editors, Thomas Stafford and Deborah Armstrong have been settling into the role and are preparing initiatives to move the journal forward. Note that we achieved a citation index above 1.0 for the first-time last year.

In recent years, a new section of *philosophy of science* and another on *research methods* (particularly path analysis) have been added to updating the strategic direction of the publication. Note also that submissions continue to increase, pressuring the review system, however, editors are recruiting new associate editors as needed. We are also moving from requiring university host institutions from funding publication related expenses such as proofreading and hosting booths at key conferences to taking these on within the SIG. We expect that this will provide much greater support for the publication team and extend their ability to increase quality and inform the community of our efforts.

We continue seeking a way that allows AIS and ACM to extend distribution of DATABASE to AIS members. Due to the nature of revenue streams and business models, these discussions are sensitive, but we are hopeful that this can be developed as a greater conduit for mutual benefit. We are also looking at ways to contract with ACM for a broader range of editorial services despite being categorized as a "newsletter" rather than journal.

Social Media and Communications:

SIGMIS has a Facebook page (https://www.facebook.com/acmsigmis) and a LinkedIn profile (https://www.linkedin.com/groups/5148399) and our new Twitter account (https://twitter.com/acmsigmis).

As these are relatively new, we haven't yet developed a thorough sense of their effectiveness or how to best use them to communicate the right amount and type of information with members, but we continue to enhance our presence in the social media arena.

2021 SIGMIS Conference:

We have begun the planning for the 2022 conference as a face-to-face conference in Atlanta, Georgia, USA. We will have to see how attendance returns when we meet face to face, as will many other conferences, we expect. Note that our submissions were largely the same as in recent years this time around, however, we did not have the poster sessions which reduced participation, but we hope will return with the reintroduction of this conference feature.

Collaborations:

Damien Joseph continues to provide excellent leadership of the in-cooperation program with other groups seeking our support relative to their conferences. It turns out there are a much larger number than expected of requests in this area and we want to redesign our approach. It takes some effort to evaluate each of these in detail and decide whether our support is warranted as well as how to generate more

benefit to our members. It will be advantageous if we can exploit these connections for mutual advertisements of these conferences to our members and our CPR conference to their members.

SIGMIS was in cooperation with the following 11 conferences:

1. CHIRA '20: International Conference on Computer-Human Interaction Research and Application
2. CLOSER '20: International Conference on Cloud Computing and Service Science
3. CSEDU '20: International Conference on Computer Supported Education
4. DATA '20: International Conference on Data Science, Technology and Applications
5. ENASE '20: International Conference on Evaluation of Novel Approaches to Software Engineering
6. FEMIB '20: International Conference on Finance, Economics, Management, and IT Business
7. HEALFINF '20: International Conference on Health Informatics
8. ICE-B '20: International Conference on e-Business
9. ICEIS '20: International Conference on Enterprise Information Systems
10. ICIKS '20: International Conference on Information and knowledge Systems
11. ICIS '20: International Conference on Information Systems

SBSI '21: XVII Brazilian Symposium on Information Systems. We continue seeking out collaborations with AIS special interest groups particularly regarding leadership and diversity/inclusion. The strategy is to make focused events and activities of interest to ACM SIGMIS members available before or during all major MIS conferences – ICIS, HICSS, AMCIS, ECIS, and PACIS – as well as our own standalone conference. This is slower going than expected but I anticipate will continue to grow over the next few years.

Strategic Focus:

In terms of strategy, we have reasserted central interest in IS personnel, users in organizations and society, leadership, and inclusion. We also welcome for both the conference and publication a wide range of MIS topical areas including ethics, all aspects of work, and IS entrepreneurship. The question will be whether it will be more effective to focus more narrowly on traditional topics or to continue expanding the range of issues we deal with.

ELECTIONS:

We have experienced a complete turnover of elected officers. The new officers are:

Chair -- Cindy Riemenschneider, Baylor University, Texas, USA,

Vice Chair -- Damien Joseph, Nanyang Technological University, Singapore,

Treasurer – Indira Guzman, Trident University, California, USA

The new lineup will reevaluate the portfolio of current programs and likely initiate new ones in response to changes in community needs and preferences.

Appendix A – Lifetime Achievement Award

2021 ACM SIGMIS CPR

ACM SIGMIS

Lifetime Achievement Award

We are pleased to announce that **Dr. Eileen Trauth**, Emeritus Professor of Information Sciences & Technology, and Women's, Gender & Sexuality Studies at the Pennsylvania State University, is the recipient of the 2021 ACM SIGMIS CPR Lifetime Achievement Award.

Appendix B – Early Career Award

ACM SIGMIS
Early Career Award

It is our great pleasure to announce that **Dr. Manuel Wiesche,** TU Dortmund University, Germany, is the recipient of the 2021 ACM SIGMIS Early Career Award.
The award recognizes the early achievements of young scholars in the field of management information systems.

Appendix C – Recent Conference Statistics

		CPR 2021 (virtual)	CPR 2020 (Nuremberg à virtual)	CPR 2019 (Nashville)	CPR 2018 (Niagara Falls)	CPR 2017 (Bangalore)	CPR 2016 (Alexandria)
Papers	Submissions	25	22	42 (including posters)	52 (including posters)	53	28
	Accepted	15	14	29	26	31	16
Posters	Submissions	*None (format not offered)*	*23*	*(included in papers)*	*(included in papers)*	18	6
	Accepted	*None*	17	5	19	11	5
Overall Submissions		**25**	**45**	**42**	**52**	13	**34**
Overall Acceptance Rate		67%	69%	69%	75%	52	67%
Panels		0	0	3 (plus iDream play)	3	75%	2