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To Whom It May Concern

Subject: Opponent Opinion Letter for Dr. Natalia Kryvinska

For a call of the inaugural procedure of the scientific-pedagogical degree Professor to
Docent, Dipl.-Eng. Natalia Kryvinska, Dr.techn.,
Pedagogical employee of Faculty of Management of Comenius University in Bratislava,
Slovakia
In the field of 3.3.15. Management

My name is Leonard Barolli. I am a Full Professor at Fukuoka Institute of Technology (FIT), Japan. I got my Ph.D. degree from Yamagata University, Japan in March 1997. From April 1997 to March 1999, I was working as a Post Doctor Fellow Researcher of Japan Society for the Promotion of Science (JSPS) at Department of Electrical and Information Engineering, Yamagata University. From April 1999 to March 2002, I was a Research Associate at Department of Public Policy and Social Studies, Yamagata University. From April 2002 to March 2003, I was an Assistant Professor at Department of Computer Science, Faculty of Engineering, Saitama Institute of Technology (SIT), Japan.

I was an Editor of Information Processing Society of Japan (IPSJ) Journal and I am serving in the Editorial Board of many International Journals. I have been a Guest Editor for many Special Issues. I am engaged as PC Co-Chair and General Co-Chair of many International Conferences. I am Steering Committee Chair of CISIS and BWCCA International Conference and Steering Committee Co-Chair of IEEE AINA, INCoS, NBiS, EIDWT and 3PGCIC International Conferences. I am organizer of many International Workshops such as MNSA, HWISE, WAIS, TwC, BICom, EDCS, NTCCA, NGWMN, R3IC and SMECS. I have served as a reviewer for many International Conferences and Journals. I have published more than 900 papers in referred Journals, Book Chapters and International Conference Proceedings. My research is supported for more than 25 years by JSPS Grant-in-Aids for Scientific Research and other Japanese Foundations. I have won awards from many International Conferences and I got the

Certification of Appreciation from IEEE Computer Society from 2004 to 2011. Considering my background, I am in position to judge the abilities of Dr. Natalia Kryvinska for title of Professor at Your University.

I am glad to evaluate dossier of Dr. Natalia Kryvinska for title Professor and write this opponent opinion letter.

1. Assessment of Pedagogical Activities

Candidate for an appointment as a professor in the field of 3.3.15 graduated from the National University “Lviv Polytechnics” in Lviv 1994, Ukraine, Engineering degree in Telecommunications. In 2003, she was awarded a PhD degree in the Electrical & IT Engineering from the Vienna University of Technology, Austria. She habilitated from the Comenius University in Bratislava Slovakia in 2015, in Management Information Systems.

Docent Kryvinska has been involved in educational activities by various universities, in Slovakia and abroad since 1998:

1. 1998 ÷ 2010 - Institute of Telecommunications, Radioelectronics and Electronic Engineering, National University “Lvivska Polytechnica”, Lviv, Ukraine.
2. 2006 ÷ 2007 - Department of Computer Sciences, University of Salzburg, Salzburg, Austria.
3. 2008 ÷ Present - School of Business, Economics and Statistics, University of Vienna, Vienna, Austria.
4. 2013 ÷ Present - Department of Information Systems, Faculty of Management, Comenius University in Bratislava, Slovakia.
5. 2014 ÷ 2017 - Institute for Management Information Systems, Vienna University of Economics and Business, (WU Wien), Vienna, Austria.
6. 2017 ÷ Present - Institute of Information Technology, Faculty of Technical Physics, Computer Science and Applied Mathematics, Lodz University of Technology (Politechnika Łódzka), Łódź, Poland.

She generated/created and offers number of courses on Bachelor, Master, and PhD level by these Universities. Besides, Docent Kryvinska has been supervising a number of Bachelor, Master and PhD theses in the above mentioned high-education institutions. Furthermore, Docent Kryvinska is active in various academic advisory boards. She is participating vigorously in the councils by reviewing, appointment-committee members, as well as boarding Post- and

Doctoral- qualification commissions. In parallel, she is membering Academic Examination Boards and participating in State Exam Councils.

The above mentioned activities present Docent Kryvinska as an academic/university fellow with high professional/pedagogical knowledge and experience.

On the basis of this, it can be stated that the criteria for obtaining the professor title in the pedagogical activities are entirely meet.

2. Evaluation of Academic Research Activities

Candidate for an appointment as a professor, after having more than 10 years (1986 ÷ 1998) practical experience in Telecommunications sector different sub-fields, started an academic career as follows:

1998 ÷ 2000 - Institute of Telecommunications, Radioelectronics and Electronic Engineering, National University “Lvivska Polytechnica”, Lviv, Ukraine.

2000 ÷ 2003 - Vienna University of Technology, Institute of Communication Networks (IKN), the following projects: Intelligent Networks/Internet Integration, Telecommunication Networks Management, Stream Control Transmission Protocol (SCTP) protocol, 2G/3G mobile networks (GSM/UMTS) and NGN (Next Generation Network) Services. The work on these projects was a motivation for her dissertation: “Convergence of Intelligent and IP-Networks and Services”.

2002 ÷ 2005 - Research cooperation with “Research Institute of Telecommunications”, St. Petersburg, Russia, research projects: “Next Generation Network (NGN) services/applications”, “Converged Network services modeling, performance evaluation, network and services parameters investigation for the development of new architectures for converged network services support”.

2004 ÷ 2006 – Department of Industrial Management, School of Business, Economics and Statistics, University of Vienna, research project: “Technological and economic aspects of Energy Efficiency (EE) modeling/optimization and Quality of Services (QoS) support in wireless communication and information networks”.

2006 ÷ 2007 - Department of Scientific Computing, University of Salzburg, research projects: “Converged Network Implementation Model - Planning, Design, and Optimization in Design”, “Voice over Internet Protocol (VoIP), Converged Network, Quality of Services (QoS), Specification, Planning, Optimization, Deployment, Mathematical Analysis”.

2007 ÷ 2009 – (IBM Academic Initiative) Department of eBusiness, School of Business, Economics and Statistics, University of Vienna, research project “Strategic enterprise planning and dynamic business process management by means of service-oriented principles/engineering: An analysis of potentials challenges and the strategic impact of process-centric application development”.

2008 ÷ 2010 – (FFG), Department of eBusiness, School of Business, Economics and Statistics, University of Vienna, projects cluster: (1) “Management Decision Support for application delivery in IT organizations”, Project Partner - Steinringer WEB and IT solutions GmbH; (2) “Assessment of QoS for Business-ready converged enterprise communications”, and (3) “Service Oriented Architecture for Telecom Industry: Perspectives and Benefits”, Project Partner – (GCS) Global Communication & Services GmbH; (4) “Quality and Efficiency Criteria determining the SOA Business Value”, Project Partner – eBIZ enterprise, Strategie, Internet & Innovationsberatung.

2011 ÷ 2013 – participating in COMET Competence Centers for Excellent Technologies - COMET Centers (K1), sponsored by the Ministry for Transport, Innovation and Technology (BMVIT) and the Ministry for Digital and Economic Affairs (BMDW), senior researcher, Industrial Research Center “Secure Business Austria”, Vienna, Austria.

2013 ÷ 2014 – ÖAD (Austrian Agency for International Cooperation in Education and Research) funded, Guest Professorship at the Department of Information Systems, Faculty of Management, Comenius University in Bratislava, Slovakia.

2014 ÷ 2015 – National Scholarship Programme of the Slovak Republic (NSP) funded, Guest Professorship.

2017 ÷ Present - Erasmus+ Programme, Key Action 1, Staff Mobility, Inter-institutional agreement 2016/2017-2020/2021, Visiting Professor at the Lodz University of Technology (Politechnika Łódzka).

2017 ÷ Present - Project Leader International Cooperation Project, Coordinated by University of Applied Sciences (Technikum Wien), Institute for Advanced Engineering Technologies, “Engineering goes International (ENGINE)”, supported by WWTF funds, duration 3 years, Project Partners: University of Vienna, Comenius University in Bratislava, Lodz University of Technology.

Docent Kryvinska presented results of her scientific work at a number of international conferences in Europe, USA, and Japan. Besides, she has given numerous educational and research talks/seminars at various research institutions and academic bodies.

The research work of Docent Kryvinska is very impressive. She has published more than hundred quality scientific works including 5 scientific monographs issued in the international publishing houses. Furthermore, Docent Kryvinska has published 26 international journal contributions, 4 from them with IF more than 1. Also she has more than 70 contributions to renowned international conferences.

Based on such extensive output, it can be indicated that the candidate fully meets criteria for the publication activities.

Research works of Docent Kryvinska were cited 1019 times - google scholar database, 307 times in domestic and foreign publications, 272 of which in the WOS and SCOPUS databases.

On the basis of this, it can be stated that the applicant completely meets criteria concerning quotation of her scientific work, moreover minimum requirements are significantly exceeded.

3. Other Professional Activities

Candidate for the promotion as a Professor has an extensive experience in serving in international scientific community in different aspects. In particular, Docent Kryvinska has been editor and co-editor for various books, edited volumes, by Springer and other publishers. Further, she coedited a number of special issues for international peer-reviewed scientific journals. She is also an associated editor and an international editorial board member for several leading peer-reviewed journals. Additionally, she reviewed more than 100 submissions by numerous international journals.

Docent Kryvinska organized and was co-chairing a number of prominent international symposia. She was the international committee member for numerous IEEE, ACM, LNCS, AIS, and many other conferences. She was also giving talks and leading numerous sessions by renowned international conferences. All of above mentioned journals and conferences are indexed in WoS and Scopus databases.

Last but not least Docent Kryvinska is an active member of international organizations such as: IEEE, AIS, BAM and Austrian Computer Society.

Overall Rating

From the submitted materials and on the basis of assessment of compliance with the established criteria, I consider that Docent Kryvinska not only met, but also exceeded criteria in each area to obtain the title of Professor.

She is a recognized expert in the field, as evidenced by her pedagogical, scientific, research, publishing and other activities she performs in Slovakia and abroad. The results of her work have made a significant contribution to the Faculty of Management, Comenius University in Bratislava.

Based on the results achieved and the fulfilment of individual criteria, I state that the applicant for the title of Professor - Docent Natalia Kryvinska meets all conditions set by the Faculty of Management at Comenius University to obtain the full-fledged scientific and pedagogical title “Professor”.

Please let me know if you need any other information or documents.

Yours sincerely,

Leonard Barolli

Full Professor

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