

PREFACE

This book tries to stress the importance of synergistic interaction between e-business and e-education, in the context of new Internet related developments. Although the two, e-business and e-education, can co-exist independently of each other, their synergistic interaction is crucial for the process of the Internet-based technology transfer, which is stressed in the foreword contributed by Professor Bob Richardson, a Nobel Laureate from Cornell University. E-business can help e-education, and vice versa, and both can help the acceleration of global technology transfer.

The book also stresses the importance of the globalization issues, and an effort was made to bring together researchers from a variety of geographical locations; mostly young and promising ones, in order to help them obtain a better visibility for their on-going research efforts. Most of the work published in this book was first presented at the SSGRR-2000 - an international conference specializing in the infrastructure for e-business, e-education, and e-science on the Internet (<http://www.ssgrr.it/en/ssgrr2000/index.htm>) held at Scuola Superiore Guglielmo Reiss Romoli (SSGRR), the Education Centre of the Telecom Italia Group of Companies.

Editors are especially thankful to those who helped this book become a successful reality. Professor Beverly Park Woolf contributed to the selection process. Professor Borko Furht contributed with a plethora of extremely useful suggestions. Cesira Verticchio (SSGRR) helped in the final book preparation stages, while numerous students from the University of Belgrade helped search the World for promising research contributions that make potential candidates for such an edition, to name just a few: Zoran Horvat, Dusan Dingarac, Miodrag Stefanovic, and Marjan Mihanovic.

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WENDY CHIN

Founder & CEO

TechnologyConnect.com, Inc.

Ms. Chin is a results-oriented high-energy executive with 17 years experience in the telecommunications industry and extensive general management experience. Known as a bottom-line oriented leader, Ms. Chin has drawn on her skills in marketing, sales, team building, project management, and public speaking to structure enterprises for both long-term viability and near-term value. As a telecom industry veteran, Ms. Chin is often invited to give speeches at conferences as well as writing articles for respected technical journals.

Prior to founding TechnologyConnect, Ms. Chin was the Managing Director of a Hutchison Whampoa backed start up in China which provided the first electronic commerce services in the region. During her tenure, Ms. Chin designed the company organizational structure, developed human resources and financial policies, and established the company by hiring local staff.

Before that, Ms. Chin was the Executive Director of Pyramid Technology Corporation, a Siemens Nixdorf Company in the Asia Pacific region now named Siemens Information Systems. At Pyramid Technology, she held P&L responsibility for Pyramid's computer line of business with key focus in data warehouse projects within the telecom and finance industries. In that capacity, Ms. Chin worked with (and educated) customers in different Asian countries to implement data warehouse projects. She also set up infrastructure by establishing partnerships with local companies and hiring both sales and technical people to support the selling efforts. Prior to joining Pyramid Technology, Ms. Chin was the Director of Telecommunications Industry Marketing with AT&T Global Information Solutions (NCR) in the Asia Pacific Area where she was responsible for sales and marketing of data warehouse and billing solutions. Formerly, she was Product Manager, AT&T Network Systems Group (Now Lucent Technology) where she supported sales & marketing, and implementation of more than \$16 million of contracts in several Asian countries. Ms. Chin started her career as a Member of Technical Staff with AT&T Bell Laboratories where she designed and implemented different systems ranging from imaging platforms to multi-location video conferencing devices.

Ms. Chin is very familiar with high-tech international marketing, contract negotiations, financing, and general corporate management. Ms. Chin holds B.S. and M.S. degrees in Electrical Engineering from Cornell University and an MBA from the University of Pennsylvania, Wharton School of Business".

FREDERIC PATRICELLI

Frédéric Patricelli currently leads the International Operations Business Unit of Scuola Superiore G. Reiss Romoli (SSGRR), the Education Centre owned by the Telecom Italia Group of Companies, where he has worked since 1986. He served as senior lecturer at SSGRR and also taught for 6 years at the Computer Science and

Engineering Faculties of the University of L'Aquila, Italy. He still serves as Program chairman, Session Chairman and International Programme Committee member for many International Conferences and Workshops; he also served as keynote speaker for many international events (Nokia and VTT Electronics Summer School, Moscow University, University of Belgrade, Ecole Nationale Supérieure des Telecommunications, etc.). Since 1997 he is the Italian Director for industry of the Euromicro European association. Throughout 1997 he consulted Motorola SATCOM (SATellite COMMunications Division, Phoenix, AZ) concerning the design of the phase III Iridium training courses.

He wrote dozens of papers for International Conferences. Since 2000, he is also a member of the Board of Directors and Vice Chairman of Euroteam, an International organisation grouping all the major European Telecommunication Operators. Frédéric Patricelli speaks Italian, French, English and Spanish fluently, he also studied German for 8 years.

VELJKO MILUTINOVIC

Dr. Milutinovic was responsible for a number of successful commercial products and scientific prototypes (as a designer, architect, or project leader); these include the world's first multimicroprocessor HF radio modem for defence applications (in 70s), the world's first 200MHz RISC microprocessor for DARPA (in 80s), the world's fastest I/O pump for personal computers (PCs) in cooperation with Encore, a clone of Intel i860 in cooperation with Unisys Tokyo, and a number of innovations related to the multimedia PC of NCR (all in 90's). Most recently he is active in infrastructure for e-business on the Internet, where he combines his expertise in hardware, software, and business administration (for more efficient proxy caching, intelligent search, and business automation using the Internet). He is on the Advisory Board of TechnologyConnect from Boston, Massachusetts (www.technologyconnect.com), on the Advisory Board of BioPop from Charlotte, North Carolina (www.biopop.com), and he consulted for a large number of high tech companies including, but not limited to: Intel, Fairchild, Honeywell, Compaq, Encore, Philips, IBM, GE, RCA, NCR, AT&T, QSI, DEC, DELCO, Aerospace Corporation, Electrospace Corporation, Zycad, Virtual, MainStreetNetworks, eT, Marubeni, Unisys, CNUCE and SSRR.

Dr. Milutinovic was on various faculty positions at Purdue University for about a decade back in 80s, and he lectured also on all remaining top 10 US schools in electrical and computer engineering (MIT, Stanford, Berkeley, etc.). While at Purdue, he invented the concept of high-level language architecture based on the principle of vertical migration, the concept of delayed decision computer architecture, and the concept of weighted partial detection architecture - all of them referenced in the open literature and used by industry worldwide. He was also on various faculty positions at the University of Belgrade during the decade of 90s, and he still teaches and conducts research there in the field of infrastructure for e-business on the Internet and computer architecture/design. While in Belgrade, he invented the concept of split spatial/temporal cache architecture, the concept of spacial/temporal mutation in

genetic search algorithms, and the concept of customer satisfaction/profile/behaviour search based on reconfigurable accelerators and ad-hoc networking. He taught and conducted research also at a number of universities in Italy, Spain, Germany, Mexico, Japan, and Australia.

Dr. Milutinovic published over 20 books with the major US publishers featuring a rigorous reviewing process (Wiley, Prentice-Hall, North-Holland, Kluwer, McGraw-Hill, IEEE Computer Society Press, etc...). Some of his books were the best sellers for their publishers (one of them was the best seller of all times for the IEEE CS Press), and for three of them forewords were written by three Nobel Laureates. He published about 50 papers in the world's most prestigious IEEE journals and about 100 journal papers in total, plus many more at conferences. He was the guest editor for major IEEE journals in computing: IEEE Transactions on Computers, IEEE Computer Magazine, IEEE Concurrency, and Proceedings of the IEEE. His work is extensively referenced in the open literature (over 300 citations untill the year 2000).

Dr. Milutinovic presented over 300 invited lectures worldwide (keynotes or tutorials on the opening days of conferences, courses for graduate programs of universities, and consulting reports for industry). These lectures were presented in 10 different languages.

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