DR SHOUMEN PALIT AUSTIN DATTA

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EXCEPTIONAL CHARACTERISTICS

● Excellence in communication, digital science and key dimensions (autonomous vehicles, robotics, 3D printing, healthcare)
● Creator of digital concepts and progress of industrial internet of things (IoT for manufacturing, healthcare, energy, retail)
● Provides thought leadership for digital transformation (convergence of AI, Data Analytics, Digital Twins, Cybersecurity)
● Skilled in executive education for strategy, digital operations and innovation in supply chain management for C-suite
● Trusted strategic advisor to global organizations for digital transformation futures and intelligent decision systems

MANAGEMENT AND ORGANIZATIONAL EXPERIENCE

● MIT Auto ID Center, Technology Board (2000-2004)
● MIT Forum for Supply Chain Innovation (2001-2009)
● MIT Data Center (2003-2006)
● MIT Sloan School of Management, Executive Education in Strategy and Management and other programs (2002-2007)
● Medical Device Interoperability Program (MDPnP Lab), Massachusetts General Hospital, Harvard Medical School
● Industry

POSITIONS **INDUSTRY ● ACADEMIA ● GOVERNMENTS ● GLOBAL ORGANIZATIONS**

2013 - *present* MIT Auto ID Labs ▪ Research Affiliate, Dept of Mechanical Engineering, MIT http://autoid.mit.edu/people-2
2017 - *present* MDPnP Scientist ▪http://mdpnp.mgh.harvard.edu▪ Massachusetts General Hospital, Harvard Medical School
2017 - *present* NSF Center on Robots and Sensors at Purdue ▪ http://web.ics.purdue.edu/~rvoyles/RoSeHUB.contact.html

● Founded in 1999, the Auto ID Center at MIT re-invented RFID, created EPC standard and gave birth to IoT.
● I was a part of the Auto ID Center at MIT from 1999-2004. All major corporations from multiple industries were members of the Auto ID effort to implement RFID for tracking and tracing (EPC and PML as standards). Published vision of evolution of IoT to industrial IoT (2003) including Agents, AI, predictive analytics of data.
● I am continuing the data and connectivity momentum to advance Digital Transformation and industrial IoT through R&D in manufacturing, software, energy, security, healthcare (http://mdpnp.mgh.harvard.edu). Convergence of sensing, connectivity with data, decision, analytics, is key to action, outcome and profit.

2013-2016 Senior VP, Industrial Internet Consortium (www.iiconsortium.org) (10/2013-7/2016) ● http://bit.ly/MIT-IOT
2013-2016 Senior VP, Object Management Group (www.omg.org) (10/2013-8/2016) ● http://bit.ly/IIC-2013-2016-SD

● 300 companies, 25 countries, 3300 members, in pursuit of digital transformation and industrial IoT (IIoT)

2000-2010 Research Scientist, Engineering Systems Division, Massachusetts Institute of Technology
MIT Auto ID Center (Technology Board Member for Standardization of RFID)
MIT Forum for Supply Chain Innovation (Co-Founder, Executive Director, Research Director)
MIT Sloan School of Management (Executive Education in Strategy and Management, Supply Chain)
MIT Data Center (2003-2006) - http://web.mit.edu/edmund_w/www/DATACENTERpeople.htm
MIT Energy Initiative (2008-2009) - http://energy.mit.edu/

● I helped to lead change and growth in business and technology through global innovation due to radio frequency identification (RFID) of objects and internet of things (IoT) as a result of the ecosystem created by RFID and its integration with software and ERP for real-time data and analytics coupled with AI.
● I developed models of operational transparency which could generate new business models and created tools (published ground breaking ideas and also collaborated with Nobel Prize winning economists).
● I acted in advisory capacity to Fortune 500 companies, various US government agencies, organizations, foreign governments and global academic institutions to articulate, communicate and educate strategic nodes and points of influence with respect to [a] new tools to create new dimensions of socio-economic growth, [b] technologies that may benefit from tech transfer systems, [c] creation of intellectual property (IP) due to advances that may stem from some of these fundamental proceedings, [d] integration of this wealth of knowledge with community college and secondary education (necessary to maintain the supply chain of talent to continue to reap the harvest from future innovation).

1999-2002 SAP - Management of Technology Innovation, Global Business Development and Consulting

Experienced leader with track record of business innovation and catalyzing profitable growth through product strategy and management of technology • Demonstrated expertise in steering organizational change through strategy, management and leadership of multi-national teams across diverse cultures • Experience in public sector and significant bio-medical expertise.
☑ Sales and Revenue Growth ☑ Channel Management ☑ Product Development ☑ Commercialization ☑ Innovation Index
☑ Strategic Planning ☑ Change Management ☑ Market Assessment ☑ Bio-medical Research ☑ Partnership Development

High Tech Business Unit - SAP Labs Palo Alto, California — Revenue Growth estimated at $1 million +

[a] Development consultant for high tech IBU
[b] Pre-sales support for semiconductor industry (highest growth vertical which included CRM, DRM, PLM, MES)
[c] Global management of liaison with SAP Japan

High Tech Accounts – SAP Japan (Tokyo, Japan) — Revenue Growth estimated at $10 million +

[a] Major customers - SONY, HITACHI and MITSUBISHI
[b] Specifically served as the SAP SCM (APO suite) pre-sales support team for SONY Semiconductors, SONY Electronics, SONY Global Logistics, SONY Computer Entertainment
[c] Defined SAP-SONY APO needs for sales strategy
[d] Major sales growth for SAP Japan
[e] Consulting for SAP Labs Palo Alto

SCM Business Unit – SAP AG (Waldorf, Germany) — Revenue Growth estimated a $100 million +

[a] Introduced RFID innovation for SAP real-time SCM
[b] RFID SCM partnership with P&G and SONY (Japan)
[c] Co-created business plan for SAP SCM RFID integration
[d] Helped SAP adoption of RFID in multiple suites
[e] Represented SAP at RFID Technology Board at MIT
[f] Helped SAP to publish 2 books on RFID applications
Adapt or Die and *RFID and Beyond* (Claus Heinrich)

1999-2004 MIT Auto ID Center

☑ RFID Vision - Real-Time Intelligent Data, IoT
☑ Strategic and Business Applications of RFID
☑ RFID as a Real-Time Data Tool for Supply Chain
☑ RFID next generation applications and evolution
☑ RFID SCM consulting: Wal-Mart, US DoD, P&G, Kimberly-Clark, Tesco, UniLever, Gillette, Deloitte, Accenture, PWC, Hitachi, Philips, GlaxoSmithKline, Government of Taiwan

2001-2010 MIT Forum — Revenue Growth estimated at $1 million +

MIT Forum for Supply Chain Innovation

Co-Founder, Executive Director and Research Director

COMPANIES – CONSULTING		
GE	Volvo (SW)	Nokia (FI)
GM	Tata (IN)	Chi-Mei (TW)
P&G	Siam Cement	LogicaCMG (NL)
IBM	Michelin (FR)	LogicTools
CGEY	Hitachi (US)	CapGemini (UK)
Pepsi	III (TW)	Rolls Royce (UK)
Xerox	ITRI (TW)	SAP (DE, US, JP)
Intel	Airbus (DE)	Sony (JP)
Deloitte	AAR	Mitsubishi (JP)
ExoStar	Kone (FI)	Stockway (FI)

GOVERNMENTS AND GLOBAL ORGANIZATIONS – CONSULTING
US Department of Defense (US Army Materiel Command)
US Department of Homeland Security (CBP, TSA)
World Customs Organization (Brussels)
United Nations - UNDP (New York, Shanghai)
Government of Finland (TEKES - Council on Sci and Tech)
Government of Taiwan (Ministry of Economic Affairs IDB)
Government of Thailand (Ministry of Science and Tech)
Government of Ireland (Innovation, Office of Taoiseach)
Government of India (Customs, Finance, Energy)
GS1 HongKong (China), TEPCO (Japan), NSF (USA)

Advisory / Consulting Roles – Disclosure of topics, statement of work and agreements are prohibited (to comply with NDA)

Koch	Digital Transformation ▪ IoT and Industrial IoT Data, AI, Analytics ▪ Sensors, robotics, nanotech
GE	Industrial IoT ▪ RFID, UWB, Sensors ▪ Predictive Analytics ▪ Digital Supply Chain Management ▪ IPv6
P&G	Transparency of SCM ▪ Design of Data Flow ▪ RFID in Supply Demand Network ▪ Agents in SCM
IBM	Digital Value Networks
PepsiCo	Supply Chain Management (SCM)
Xerox	Intelligent PLM (product life cycle management)
Intel	RFID and digital SCM in retail stores of the future ▪ Autonomous Transportation ▪ Industrial IoT
Volvo	Intelligent Decision Systems
Tata (Tata Steel)	Supply Chain Planning and Optimization
Siam Cement	Supply Chain Planning and Optimization ▪ Energy Efficiency ▪ Sensor Networks ▪ Asset Management
Michelin	Inventory Optimization ▪ Operations Management ▪ RFID in Asset Management
Hitachi	RFID in track and trace ▪ IoT and the industrial internet ▪ Digital Transformation ▪ Transportation
Airbus	RFID in track and trace ▪ Spare parts inventory management
General Motors	RFID in track and trace ▪ Spare parts inventory management
AAR	RFID in track and trace ▪ SCM inventory management ▪ Digital Transformation ▪ Data, Analytics, AI
Kone	Intelligent PLM (product life cycle management) and coupling with digital supply chain management
Nokia	Intelligent PLM (product life cycle management) and coupling with digital supply chain management
Chi-Mei	Digital interfaces in healthcare infrastructure
LogicaCMG	SCM and the evolution of value networks
CapGemini	RFID and digital supply chain ▪ IoT
Sony	RFID in semiconductor industry transparency ▪ Global Logistics ▪ SCM software ▪ Decision Systems
Mitsubishi	RFID in heavy industry
TEPCO	Internet infrastructure ▪ IPv6 ▪ Semantic Interoperability between systems ▪ Intelligent Systems
Huawei	IoT and Industrial IoT ▪ Digital Transformation ▪ Data, Analytics, AI and Intelligent Decision Systems
TCS	Data and Artificial Intelligence ▪ Digital Transformation ▪ Robotics and Automation
Fujitsu	IoT and Industrial Internet ▪ Data, Analytics and AI
TechMahindra	IoT and Industrial Internet ▪ Data, Analytics, AI ▪ Medical Devices ▪ Interoperability ▪ Cybersecurity
Accenture	IoT and Industrial Internet ▪ Data, Analytics and AI ▪ Digital Twins and Digital Transformation of SCM
Deloitte	Healthcare Information Technology (HIT)
Braun	Medical Devices ▪ Interoperability ▪ Cybersecurity
Infosys	IoT and Industrial Internet ▪ Data, Analytics, AI ▪ Autonomous Transportation
Governments	
AOK (DE)	Digital Transformation in Healthcare ▪ Cybersecurity ▪ Data, Analytics, AI
WCO (EU)	Security and Cybersecurity in multi-modal transportation ▪ Standards for security harmonization
DHS (US)	Risk in security ▪ ACE Program
ITRI (TW)	IoT and Industrial Internet ▪ SCM ▪ Sensors and energy efficiency
III (TW)	RFID, IoT, IIoT ▪ Digital SCM ▪ Data, Analytics, AI ▪ Cybersecurity ▪ FinTech ▪ Blockchain ▪ Transport
MOEA (TW)	IoT and Industrial Internet ▪ Digital SCM ▪ Data, Analytics, AI ▪ Education Technology
STAG (TW)	RFID and Digital SCM
TEKES (FI)	Ministry of Science and Technology (Innovation, SCM, PLM, Data, Analytics, IoT, Cybersecurity)
Ireland	Prime Minister's Task Force for Innovation (Energy)
India	Customs Bureau, Ministry of Finance
DoD (US)	US Army Materiel Command
GAO, NAS (US)	Cybersecurity ▪ IoT and Industrial IoT
DoC (US)	Workforce and Education for Economic Growth (National Task Force for Clinton Administration)
State of California	Special Assistant to Mayor of San Francisco for Public K-12 Education (SFUSD) http://bit.ly/SD-K12

SUMMARY – Advisory / Consulting Roles grouped by select topics (see previous page for categories excluded in this table)

IoT, RFID and Future IoT / Industrial IoT	Digital Twins and/or Digital Transformation	Data, Analytics, AI Software Tools	Digital Supply Chain Operations Management (SCM)	Intelligent Product Lifecycle Management (PLM)	Cybersecurity
Koch	Koch	Koch			Koch
GE	GE	GE	GE		
P&G		P&G	P&G		
			PepsiCo		
				Xerox	
Intel	Intel	Intel	Intel		
Volvo			Volvo	Volvo	
Tata Steel			Tata Steel (TISCO)		
Siam Cement			Siam Cement	Siam Cement	
Michelin			Michelin	Michelin	
Hitachi			Hitachi	Hitachi	
Airbus			Airbus	Airbus	
AAR	AAR	AAR	AAR	AAR	
GM			GM		
			LogicaCMG		
CapGemini			CapGemini		
Sony			Sony	Sony	
Mitsubishi					
Huawei	Huawei	Huawei	Huawei		
Fujitsu	Fujitsu	Fujitsu			
TCS (Tata)	TCS (Tata)	TCS (Tata)	TCS (Tata)		
TechMahindra	TechMahindra				
Accenture	Accenture	Accenture	Accenture		
					B Braun
Infosys	Infosys	Infosys			
					AOK
					WCO
					DHS
ITRI	ITRI		ITRI		
III	III	III	III		III
MOEA	MOEA	MOEA	MOEA		
STAG			STAG		
TEKES	TEKES	TEKES	TEKES	TEKES	TEKES
GAO					GAO
NAS					NAS

List of Attributes / Characteristics / Soft Skills

[00] Highly skilled communicator in almost any setting or environment
[01] Trusted global advisor who had a role in creating the global digital tsunami
[02] Broad spectrum understanding of technology, industry, confluence of ideas including current and emerging digital dimensions where trans-disciplinary cross-pollination is key to value proposition
[03] Experience in consulting (globally) with different verticals and industries, about the systems approach to digital transformation with an end-to-end view of product, services and profitability
[04] Helped to build strategic alliances and interdisciplinary teams for corporations
[05] Engagement with executives of Fortune 500 companies, government agencies, bureaucrats and technocrats, worldwide
[06] Exceptional interpersonal skills and excellence in verbal, written and presentation skills, adapted for level of interaction
[07] Dynamic, innovative creator of digital ideas and themes for the pragmatic, the present and the future
[08] Passion to inspire teams, customers and even nay-sayers to reach beyond their grasp and/or think differently
[09] Convergence of ideas, tools and technologies necessary for synthesis of industry agnostic and industry specific solutions
[10] Ability to connect 'dots' in the context of solutions, applications and strategy for digital enterprises now and the future
[11] Understanding of where and what pockets of expertise reside, how to liaise with them, to help customers solve their problems in a systemic approach
[12] Academic network and strategy driven by content knowledge and thought leaders of exceptional vision and calibre
[13] Relationships with academia, industry, governments as well as multi-cultural understanding in emerging economies (SE Asia) and other geographies, in addition to the US and EU
[14] Expertise in understanding a wide range of problem areas, solution spaces and the ability to communicate across a broad spectrum (scientists and engineers to executives and new entrants) as a thought leader, a digital advisor and digital evangelist
[15] Proficiency in understanding the digital landscape, role in creating the paths for digital progress and passion about intelligent decision systems as a fundamental layer in industry in any dimension (natural resources, oil & gas, manufacturing, retail, healthcare, finance).
[16] Serve as an "explainer" in addition to role as a digital advisor, to bridge the gap between technologists and business leaders, for emerging business areas, such as, digital transformation, AI, cognitive modeling and the rational Agent approach to create sustainable ecosystems
[17] Enable and catalyze use of global institutions as platforms to promote thought leadership, market solutions and engage with new clients, propose new ideas or develop new opportunities for penetrating or creating new markets
[18] Communication in public events through institutions as business development and marketing platforms for innovation
[19] Relationship building qualities [a] ability to relate to almost all walks of life, [b] affable, [c] respectful of cultures, norms, traditions, age, place, roles [d] capable of conversation on a variety of topics (agriculture, art)
[20] Dedication to purpose, uncompromising personal character and a deep sense of dignity.

EDUCATION

1989 PhD ● RUTGERS UNIVERSITY School of Medicine [Molecular Biology, Biochem, Genetics, Microbiology] ● UMDNJ

1985 MS [eq] ● Molecular Biology, Cell Biology, Virology, Molecular Genetics ● University of Pittsburgh (PA, USA)

1980 BSc [Honours] ● Medical Physiology & Biochemistry; [Minors] Physics & Chemistry ● Presidency College, India

TRAINING

1989-1991 Harvard University, Harvard Medical School, Massachusetts General Hospital (Fellow in Medicine)

1991-1994 Massachusetts Institute of Technology, Whitehead Institute (Human Genome Project)

1994-1995 University of California San Francisco School of Medicine and UCSF School of Pharmacy

1995 University of California, Berkeley. Communications Network [Audit] ● Electrical Engineering / EECS

1998 Pharm D (award) University of California San Francisco School of Medicine ● UCSF School of Pharmacy

EXCELLENCE IN COMMUNICATION and PRESENTATION ● INNOVATION and THOUGHT LEADERSHIP in DIGITAL TRANSFORMATION

2005-2006	Advisor to the Secretary General, World Customs Organization, Brussels (Belgium)
2006 - *present*	Innovation in SCM, Institut Supérieur de Logistique Industrielle, Bordeaux Ecole de Management KEDGE Business School
2006	Keynote Speaker, Chalmers University Executive Education Program, Gothenberg, Sweden
2006	Invited Speaker, Innovation in Logistics, Ministry of Transport and Communication, Helsinki, Finland
2006	Co-organizer, WCO Education Series in Globalisation and Interoperability, Brussels, Belgium
2006-2011	Advisor, Technical Strategy and Innovation, Decision Systems Lab, GE Global Research, NY
2006	Invited Speaker, 6th Agribusiness Summit, Lexington (Kentucky, USA)
2006	Advisor, State Board, California Department of Agriculture (Advisory Committee)
2006	Keynote Speaker, World Customs Organization IT Conference, Bangalore, India
2006	Invited Speaker, IIIS-Intel Conference, Trinity College Dublin, Ireland
2006-2007	Invited Visiting Professor, Dept of Technology Management & Economics, Chalmers University, Goteborg, Sweden
2006-2007	Co-Investigator, SMART Project (Funded by European Commission, EU), Trinity College Dublin, Ireland
2007	Advising, Pervasive Decisioning Systems Laboratory, GE Global Research, New York
2007	Invited Speaker & Visiting Faculty, Lappeenranta University of Technology (Kouvola Research Unit), Finland
2007	Seminar, US Department of Homeland Security, Washington DC
2008	Invited Speaker, DRIVE for Growth Conference (IDA, Ireland)
2008-2009	Research Advising and Entrepreneurship, Institute of Technology, Tralee and Kerry Technology Park
2008-2009	Co-Founder, Centre for Innovation in Distributed Systems (CIDS) at ITT (www.cids.ie → www.imar.ie)
2008	Visiting Lecturer in International Business, School of Business Studies, Trinity College Dublin, Ireland
2008	Co-Founder and Start-up Advisor, DCS ENERGY SAVINGS PVT LIMITED (www.dcsenergysavings.com)
2009	Invited Speaker, SCM Forum IX, Helsinki (Finland)
2009-2010	Member and Affiliate, MIT Energy Initiative
2009	Start-up Advisor, InGRID ENERGY LLC (Palos Park, IL)
2009	Visiting Lecturer, National Cheng Kung University and National University of Tainan (Taiwan, ROC)
2011	Invited Seminar, Dept of Technology Management & Economics, Chalmers University of Technology, Goteborg, Sweden
2013	Keynote ● Institut Supérieur de Logistique Industrielle, École Supérieure de Commerce de Bordeaux www. kedgebs.com
2014	Keynote ● MOOC & Digital Education - Presidents' Forum of Southeast, South Asian and Taiwan Universities (Taiwan)
2014-2015	The Industrial Internet of Smart Things – Institute for Information Industry, Taipei (Taiwan) http://web.iii.org.tw/
2014	Invited Speaker and Panelist at the CSC Aspire Conferencce on IoT
2014	Invited Seminar Speaker on Cyberphysical Systems at ISIS, Vanderbilt University
2014	Invited Keynote Speaker, IoT Forum at MIT (www.iot-conference.org/iot2014/keynote-speakers/)
2014	EU-US Summit Speaker at the IoT Forum at MIT (BILAT USA 2014)
2014	Organizer ● IIC Forum – *A Sense of the Future* (Austin, Texas) www.iiconsortium.org
2015	Invited Keynote – Planning the Future Together – 25th Forum at Institut Supérieur de Logistique Industrielle, KEDGE BS
2015	Invited Speaker - Future Strategies Workshop at Huawei Corporation
2015	Invited Speaker - Future Strategies Workshop at Mitsubishi Corporation
2015	Invited Panelist – STEM Education sponsored by the National Robotics Initiative at The White House (OSTP)
2015	Invited Keynote ● NITRD Ontology Summit at NSF ● http://ontolog.cim3.net/OntologySummit/2015/schedule.html
2015	Invited Keynote ● EU IoT Week in Lisbon, Portugal ● http://iot-week.eu/events/iot-week-lisbon/
2015	Invited Keynote ● CEA LETI in Grenoble, France ● http://bit.ly/GRENOBLE-24JUNE2015
2015	Invited Keynote ● Tokyo University of Science, Tokyo, Japan ● http://bit.ly/TUS-IOT-DATTA
2015	Invited Keynote ● Global Forum, Oulu, Finland ● https://www.youtube.com/watch?v=1A2xTIuGPjM
2015	Invited Keynote ● Tampere University of Technology●www.openlivinglabs.eu/event/global-forum-shaping-future-2015
2015	Invited Keynote ● TEKES (Helsinki, Finland) ● https://tapahtumat.tekes.fi/event/internationalcollaboration
2015	International Telecommunication Union Forum on IoT ● http://bit.ly/ITU-GENEVA-IoT ● http://bit.ly/ITU-GENEVA-SG20
2015	Invited Speaker ● Korea Aerospace University (South Korea)
2015	Invited Keynote ● South Korea IoT 2015 ● http://www.iot-conference.org/iot2015/program/
2015	Invited Speaker ● Strategic Advisory Council – Huawei Corporation
2015	Invited Speaker ● University of Salamanca (Spain)
2015	Invited Keynote ● III – Big Data Conference (Taipei, Taiwan)
2015	Invited Keynote ● Healthcare IoT Forum at NCKU (Tainan, Taiwan)
2016	Invited Speaker ● Mobile World Congress (Barcelona, Spain)
2016	Keynote and Organizing Committee – Industrial Chair for ILS, Bordeaux, FR ● http://ils2016conference.com/committee/
2016	Invited Keynote ● Industrial IoT Summit ● www.industrialiotseries.com/usa/
2016	Invited Speaker ● Strategic Advisory Board – TE Connectivity ● www.te.com/usa-en/home.html
2016	Invited Speaker ● Huawei STW (Science and Technology Workshop) Shenzhen, China
2016	Panel Member ● US GAO / National Academy of Science / National Academy of Engineering – Expert Panel on IoT Policy
2016	Invited Plenary ● Global IoT CESIS (Berlin) ● www.vdi-wissensforum.de/en/cesis-global-internet-of-things-conference/
2017	Invited Speaker ● CIO/CTO Council ● Koch Industries "Translational Engineering"
2017	Panel Member ● ISPIM Toronto - Smart Cities ● https://www.ispim-innovation-forum.com/
2017	Advisor, Advanced Silicon Group ● http://www.advancedsilicongroup.com/our-team.html

KEY PUBLICATIONS

E. S. McLamore, **S. Datta** and D. Jenkins (2017) Convergence of nanobiosensors and machine learning for mobile health (*in preparation*)

Y. Rong, A.V. Padron, K. J. Hagerty, N. G. Nelson, Song Chi, N. O. Keyhani, J. Katz, **S. Datta**, C. L. Gomes, and E.S. McLamore (2017) Open source *post hoc* support vector machine (SVM) learning for biosensors based on weak protein-ligand interactions (*in press*)

Datta, S. (2017) Digital Transformation • https://dspace.mit.edu/handle/1721.1/111021

Datta, S. and Goldman, J.M. (2017) Healthcare - Digital Transformation of Healthcare Value Chain: Emergence of Medical IoT (World Health Strategy ebook ● www.fhti.org) See "Healthcare" MIT Library https://dspace.mit.edu/handle/1721.1/107893

Datta, S. (2017) Cybersecurity – Personal Security Agents for People, Process, Atoms and Bits. *Journal of Innovation Management 1* ***5*** *4-13* www.open-jim.org/article/view/397/227 or http://hdl.handle.net/10216/103566 and https://dspace.mit.edu/handle/1721.1/111021

Datta, S. (2016) Digital Twins ● https://arxiv.org/ftp/arxiv/papers/1610/1610.06467.pdf

Datta, S. (2016) Intelligence in Artificial Intelligence ● https://arxiv.org/ftp/arxiv/papers/1610/1610.07862.pdf

Datta, S. (2015) Dynamic Socio-Economic Disequilibrium. *Journal of Innovation Management 3* ***3*** *(4-9)* http://feupedicoes.fe.up.pt/journals/index.php/IJMAI/article/view/190/133 and https://dspace.mit.edu/handle/1721.1/111021

Datta, S. (2012) Unified Theory of Relativistic Identification of Information in a Systems Age: Convergence of Unique Identification with Syntax and Semantics through Internet Protocol version 6 (IPv6). *International Journal of Advanced Logistics* **1** 66-82 MIT ESD http://dspace.mit.edu/handle/1721.1/41902 and in ***CHAPTERS*** • https://dspace.mit.edu/handle/1721.1/111021

Datta, S. (2011) BIO-INSPIRED ENERGY FUTURE – QUEST FOR INTELLIGENT MITOCHONDRIA AND LIQUID FUELS. *International Journal of Electronic Business Management* **9** 1-10 http://dspace.mit.edu/handle/1721.1/59804

Datta, S. (2011) Future of Healthcare: Bio-Informatics, Nano-Sensors and Emerging Innovations (Chapter 8 in *Nanosensors: Theory and Applications in Industry, Healthcare & Defense* ed TC Lim) CRC Press http://dspace.mit.edu/handle/1721.1/58972 http://www.crcpress.com/product/isbn/9781439807361 and http://esd.mit.edu/WPS/2008/esd-wp-2008-17.pdf

Datta, S., Graham, D.P., Sagar, N., Doody, P., Slone, R. and Hilmola, O-P. (2009) Forecasting and Risk Analysis Supply Chain Management: GARCH Proof of Concept (Chapter 10 in *Supply Chain Risk and Vulnerability: Tools and Methods for Supply Chain Decision Makers* editors Wu, T. and Blackhurst, J.) Springer-Verlag http://dspace.mit.edu/handle/1721.1/43948

Datta, S. (2008) WiFi Meet FuFi: Disruptive Innovation in Logistics Catalyzed by Energy. *International Journal of Electronic Business Management* **6** 117-119 http://dspace.mit.edu/handle/1721.1/41897

Datta, S. (2008) Auto ID Paradigm Shifts from IoT to Unique Identification of Individual Decisions in System of Systems (ESD-WP-2008-09)

Datta, S. (2008) Will Nano-Butlers Work for Micro-Payments? Innovation in Business Services Model may Reduce Cost of Delivering Global Healthcare Services (ESD-WP-2008-17) Published by CRC Press

Datta, S. (2008) A Portfolio Approach for Purchasing Systems: Impact of Switching Point (ESD-WP-2008-07)

Datta, S. (2007) Decision Support and Systems Interoperability in Global Business Management (ESD-WP-2007-24)

Datta, S. (2007) Unified Theory of Relativistic Identification of Information in a Systems Age: Proposed Convergence of Unique Identification with Syntax and Semantics through Internet Protocol version 6 (ESD-WP-2007-17)

Datta, S. (2007) Advances in Supply Chain Management: Potential to Improve Forecasting (ESD-WP-2006-11)

Datta, S, Lyu, J. and Chen, P-S. (2007) Decision Support and Systems Interoperability in Global Business Management. *International Journal of Electronic Business Management* **5** 255-265 http://esd.mit.edu/WPS/2007/esd-wp-2007-24.pdf http://140.114.54.215/IJEBM/IJEBM_static/Paper-V5_N4/A01.pdf and http://dspace.mit.edu/handle/1721.1/41917

Datta, S., Granger, C. W. J., Barari, M. and Gibbs, T. (2007) Management of Supply Chain: an alternative modeling technique for forecasting. *Journal of the Operational Research Society* **58** 1459-1469 http://dspace.mit.edu/handle/1721.1/41906

Datta, S. (2006) Advances in Supply Chain Management Decision Support Systems: Potential for Improving Decision Support Catalyzed by Semantic Interoperability between Systems (ESD-WP-2006-10)

Datta, S. (2006) Charlie's Skypeout Strategy (TEKES Report, Govt of Finland) http://dspace.mit.edu/handle/1721.1/56251

Datta, S. (2004) Adapter, optimiser, prévoir - La convergence des concepts, des outils, des technologies et des normes peut-elle accélerer l'innovation*? Logistique and Management* **12** n°2 (http://dspace.mit.edu/handle/1721.1/41907)

Datta, S., *et al* (2003) Adaptive Value Network (Chapter 1 in *Evolution of Supply Chain Management: Symbiosis of Adaptive Value Networks and ICT* (Information Communication Technology). www.wkap.nl/prod/b/1-4020-7812-9?a=1

Datta, S. (2002) Agents: Where Artificial Intelligence Meets Natural Stupidity http://dspace.mit.edu/handle/1721.1/41914

Datta, S. (2001) RFID: An Incomplete Saga http://dspace.mit.edu/handle/1721.1/41915

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GRANTS • PUBLIC CONTRACTS • REVIEW PANELS • STEERING COMMITTEE • BOARDS

1996-1997 Award → US Department of Commerce, National Telecommunications Information Infrastructure Authority (NTIIA)
Project → Interactive University Program (online university – high school partnership for students and teachers)
Collaborators → University of California, Berkeley and City and County of San Francisco Public Schools

1998-1999 Contract → State of California, Department of Education
Program → State Standards for Mathematics & Science
Collaborator → Associated Scientists (Co-Founders : Shoumen Datta, Glenn Seaborg, Stan Metzenberg)

2006-2009 Award – European Union (EU) Commission on Intelligent Systems • FP6
Project – SMART • RFID Integration • http://cordis.europa.eu/projects/rcn/80467_en.html
Collaborators – Trinity College, Dublin and MIT Forum, Massachusetts Institute of Technology

2014-2015 Steering Committee, Time Aware Applications, Computation and Communication Systems • www.taaccs.org
CPS, PWG • NIST (National Institute of Standards and Technology), US Department of Commerce • www.nist.gov

2015 US DoT ITS DTFH6115R00003 – IIC Proposal for Connected Vehicles ● http://bit.ly/IIC-2013-2016-SD

2015 Advisory Boards ● ICE Alliance (www.icealliance.org) ● EU IoT 2.0 (http://www.ict-citypulse.eu) ● U-IoT (EU H2020)

2016 Advisory Boards ● EU-Japan Horizon 2020 project BigClouT ● EU – S Korea Horizon 2020 project WiseIoT
EU Horizon 2020 Project [a] Healthcare Data (SC1-PM-04) [b] Smart Cities / Smart Living (Scale UP IoT)
Coordinated grants and funding relevant to the Industrial Internet Consortium in US and EU (table in full CV version)
● IIC LSTB Summary Report - http://bit.ly/IIC-2013-2016-SD ● http://bit.ly/IIC-SC-NRT ● http://bit.ly/SD-IIC-1-100
● IIC Letters of Support (LoS) for EU Horizon 2020 proposals (2015-2016) http://bit.ly/IIC-LoS

2017 US Government Accountability Office and US National Academy of Sciences – Panel on Technology Assessment of IoT requested by US Senate ● Technology Assessment – Internet of Things ● www.gao.gov/products/GAO-17-75

2017 Cybersecurity for Medical Devices ● US Department of Homeland Security and FDA (PI - Dr Julian Goldman, MGH, HMS)

Proposal Related Documentation History http://bit.ly/SD-IIC-1-100	Government Agency (submission/preparation)	Funding Approved	Comments / Information
Autonomous Transportation http://bit.ly/DOT-DOT-DOT	US Dept of Transportation (submitted 3/2015; prep 3/2014 to 3/2015)		Did not receive rejection or funding ($20 million)
BigClouT EU-JP http://bit.ly/Project-Brief	EU Horizon 2020 (submitted 12/2015; prep 4/2014 to 12/2015)	€ 3 million	Funding Starts Sep/Oct 2016
WiseIoT EU-SK http://bit.ly/Project-Brief	EU Horizon 2020 (submitted 12/2015; prep 4/2014 to 12/2015)	€ 4 million	Funding Starts Sep/Oct 2016
ACTIV AGE http://bit.ly/Project-Brief	EU Horizon 2020 (submitted 4/2016; prep 4/2015 to 4/2016)	€ 20 million	Funding Starts Sep/Oct 2016
Internet of Food http://bit.ly/Project-Brief	EU Horizon 2020 (submitted 4/2016; prep 4/2015 to 4/2016)	€ 30 million	Funding Starts Sep/Oct 2016
WLIVE Wearables http://bit.ly/Project-Brief	EU Horizon 2020 (submitted 4/2016; prep 4/2015 to 4/2016)		Not funded for FY 2016
LSP Scale-up-IoT http://bit.ly/SCPPP-07	EU Horizon 2020 (submitted 4/2016; prep 4/2015 to 4/2016)		Not funded for FY 2016
Healthcare Data http://bit.ly/HCPPP-04	EU Horizon 2020 (submitted 4/2016; prep 9/2015 to 4/2016)		Not funded for FY 2016
Healthcare Robotics	EU Horizon 2020 (submitted 4/2016; prep 9/2015 to 4/2016)		Not funded for FY 2016