

Detailed Conference Program

13/05/2015

Session number	Session name	Room	Date	Hours	Title	Authors	Chairmen & women
S1	PSS Design and Engineering I	203	21 AM	11:00-12:40	Validation of Product-Service Systems in Virtual Reality The Influence of Dynamic Business Models on IPS ² Network Planning - An Agent- based Simulation Approach Simulation of Product-Service-Systems Piloting with Agent-Based Models Development of a Service Platform for Servitization of Manufacturing-Related Activities to Use 3D CAD Data	K. Exner, R. Stark H. Lagemann, M. Boßlau, H. Meier K.R. Wrasse, H. Hayka, R. Stark J-S. Yoon, H. Jin, B-H. Kim	Tomohiko Sakao (SE)
S2	SPECIAL SESSION PSS for Urban Transport Sharing Planning and Management	206	21AM	11:00-12:40	Non-Collaborative versus Collaborative Last-Mile Delivery in Urban Systems with Stochastic Demands Product-service-systems for Heavy-duty Vehicles - An Accessible Solution to Material Efficiency Improvements? Decision Support for Environmental-friendly Vehicle Relocations in Free-floating Car Sharing Systems: The Case of Car2Go Assessing the Environmental Performance of Different IPSS Deployment Scenarios for the Light Commercial Vehicle Industry	A. Muñoz-Villamizar, J.R. Montoya-Torres, C.A. Vega-Mejía D. Diener, M. Williander, A-M. Tillman F. Schulte, S. Voß D. Andriankaja, N. Gondran, J. Gonzalez- Feliu	Jesus Gonzalez- Feliu (FR)
S3	Sustainability and PSS I	212	21 AM	11:00-12:40	A Cluster Reference Framework for analyzing sustainability of SME clusters Product-Service Systems as a Promising Approach to Sustainability: Exploring the Sustainable Aspects of a PSS in Brazil Sustainable Factor Input in Product-Service Operation Sustainable Indicators for Small and Medium-sized Enterprises (SMEs) in the Transition to Provide Product-Service Systems (PSS)	T. Taurino T. Tavares de Sousa, P.A Cauchick Miguel K. Gutsche E. Sundin, E. Nässlander, A. Lelah	Daniela Pigosso (IT)
S4	PSS Case Studies and Lessons from Experience I	220	21 AM	11:00-12:40	Sustainable PSS for an Office Furniture Manufacturer: How Insights from a Pilot Study Can Inform PSS Design A Proposal for Energy Services' Classification including a Product-Service Systems Perspective Supporting PSS Innovation Processes by an Integrating Model Grid Providing Product-Service-Systems - The Long Way from a Product OEM towards an Original Solution Provider (OSP)	F. Costa, S. Prendeville, K.J. Beverley, G. Teso, C. Brooker M. Benedetti, V. Cesarotti, M. Holgado, V. Introna, M. Macchi D. Großmann, D. Kasperek, B. Stahl, B. Lohmann, M. Maurer C. Schnürmacher, H. Hayka, R. Stark	Yutaro Nemoto (JP)
S5	SPECIAL SESSION Lean PSS: Enabling Methods and Tools	224	21 AM	11:00-12:40	Towards a Lean Product Service Systems (PSS) Design: State of the Art, Opportunities and Challenges Expanding Value Driven Design to meet Lean Product Service Development Supporting the Performance Assessment of Product-Service Systems during the Use Phase A Software Demonstrator for Measuring the Quality of PSS	C. Sassanelli, G. Pezzotta, M. Rossi, S. Terzi, S. Cavalieri A. Bertoni, M. Bertoni, M. Panarotto, C. Johansson, T. Larsson J.M. Wilberg, C. Hollauer, M. Omer G. Mert, J. C Aurich	Sergio Terzi (IT)

				21PM 14:00-15:40	A Context-Based Requirements Analysis Method for PSS Design	Y. Nemoto, K. Uei, K. Sato, Y. Shimomura								
S6	PSS Design and S6 Engineering	203	21PM		Review of the Modelling Approaches for Availability Contracts in the Military context	D.P. Rodrigues, J.A. Erkoyuncu, A. Starr, S. Wilding, A. Dibble, M. Laity	Peggy Zwolinski (FR)							
	"				New PSS Design Method of a Pneumatic Energy System An Integrated Method to Support PSS Design within the Virtual Enterprise	L. Trevisan, A. Lelah, D. Brissaud E. Marilungo, M. Peruzzini, M. Germani								
					The Impact of Cyber-Physical Systems on Industrial Services in Manufacturing	M. Herterich, F. Uebernickel, W. Brenner								
~ 7	SPECIAL SESSION Intelligent Objects	200			Multi-level Self-organization in Cyber-physical-social Systems: Smart Home Cleaning Scenario	A. Smirnov, A. Kashevnik, A. Ponomarev	Koji Kimita							
S7	and Information Technology for PSS	206	21PM	14:00-15:40	Business Transformation in the Manufacturing Industry - How Information Acquisition, Analysis, Usage and Distribution Affects the Success of Lifecycle- Product-Service-Systems	G. Schuh, G. Gudergan, B.A. Feige, B. Achim , D.P. Krechting	(JP)							
					An IPS ² Automation Approach Based on Workflows and Software Agents	E. Uhlmann, C. Gabriel, N. Raue								
				PM 14:00-15:40	,	G. Gudergan, B. Achim, D.P. Krechting, B.A.								
	Organisational Issues				by a Capability Maturity Modelling Approach Service Value Creation Capability Model to assess the Service Innovation Capability in SMEs	Feige N. Nada, Z. Ali								
S8	and Transition Management	212	21PM		Intangible Capital, Knowledge and Maintenance Performance in PSS Networks: Process and Interaction among Partners	Y. Hu, J. Ke, Z. Guo, J. Wen	Mattias Lindhal (SE)							
	I				Improvisation as a Prerequisite for the Dynamic Interplay of Production and Service in PSS: Insides of an Organizational Design Principle and a Game-based Learning Approach for Servitization	T. Suesse								
		220			A Strategic Prototyping Framework which Supports Value Recognition, Evaluation and Design Improvement of PSS using Co-creation Approach	A. Tran, J. Park								
S9	Strategy, Marketing		21 PM	14:00-15:40	Servitization Strategy and Financial Performance of Manufacturing SMEs	C. Teyssier, S. Peillon, L. Ambroise, I. Prim- Allaz	Uta Wilkens							
33	and Business Models	220	21110		Procuring Industrial Service Solutions, Exploring Enablers for Co-creating Value	J. Sandin	(DE)							
					Method to Create Proposals for PSS Business Models	A.P Bezerra Barquet, J. Steingrímsson, G. Seliger, H. Rozenfeld								
					Product-Service Systems Value Chain Configuration – A Simulation Based Approach	K. Medini, X. Boucher, S. Peillon, C. Matos Da Silva								
a	Decision-making for	for		M 14:00-15:40	A Collaborative Service Decision-making Method for the Delivery Management of PSS	R. Zhou, J. Wen, X. Li, Y. Hu	Sergio Cavalieri							
S10	PSS Engineering	224	21PM		A Fuzzy SERVQUAL Based Method for Evaluated of Service Quality in the Hotel Industry	N.M. Stefano, N. Casarotto Filho, R. Barichello, A.P. Sohn	(IT)							
												Hybrid Fuzzy Methodology for the Evaluation of Criteria and Sub-criteria of Product- Service System (PSS)		
				21PM 16:15-17:30	Definition of an Approach for the Development of Product-Service Systems	U. Moser, S. Maisenbacher, D. Kasperek, M.								
	PSS Design and Engineering	203	203 21PM		A Method to Bridge Non-functional Requirements and Service Design	Maurer S. Izukura, S. Hosono, H. Sakaki, E. Numata, K. Kimita, Y. Shimomura	Henrique Rozenfeld							
	Ш				An Unintended and Simplified Service Engineering Approach used by an Industrial	J. Sandin, C. Berggren	(BR)							

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	Planning for PSS					Decision-Making Process for Product Planning of Product-Service Systems	D.M. Schmidt, O. Malaschewski, M. Mörtl	Alan Lelah				
S12	Engineering	206	21PM	16:15-17:30	Quantitative Analysis of an IPS ² Delivery Planning Approach	T.M. Dorka, H. Lagemann, H. Meier	(FR)					
	0 0				Planning of Production Service and Maintenance Activities - A Current State Mapping in Industry	M. Gopalakrishnan, J. Bokrantz, T. Ylipää, A. Skoogh						
					Sustainable Management of Operation for Functional Products: Which Customer	J.D. Lindström, K. Nilsson, V. Parida, D.						
					Values are of Interest for Marketing and Sales?	Rönnberg Sjödin, H. Ylinenpää						
S13	Customer Analysis for PSS	212	21PM	16:15-17:30	Modeling of Bike Sharing Demand	T.D. Tran, N. Ovtracht, B. Faivre d'Arcier	Erik Sundin (SE)					
					Customer-oriented Framework for Product-Service Systems	D.M. Schmidt, O. Malaschewski, D. Fluhr, M. Mörtl						
					ProVa - Provider Value Evaluation for Integrated Product Service Offerings	J. Matschewsky, T. Sakao, M. Lindahl						
S14	Cost Structures and Economic Models	220	21PM	16:15-17:30	Evaluation of Cost Structures of Additive Manufacturing Processes Using a New Business Model	M. Schröder, R. Schmitt, B. Falk	Veronica Martinez (UK)					
					Life-cycle Cost Strategies for Harbors - The Case of Gothenburg Container Terminal	S. Lingegård, M. Lindahl, A. Syberg						
					Supporting the Development of Environmentally Sustainable PSS by Means of the Ecodesign Maturity Model	D.C. Antelmi Pigosso, T.C. McAloone						
S15	SPECIAL SESSION Eco-design for PSS	224	21PM	16:15-17:30	Small Household Equipment toward Sustainability	R. Allais, J. Gobert, B. Laratte, B. Guillaume, D. Bourg	Maud Rio (FR)					
					A Method Helping to Define Eco-innovative Systems based on Upgradability	O. Pialot, D. Millet, E. Cor, J. Bisiaux						
					Service Engineering Methodology in Practice: A Case Study from Power and	A. Rondini, F. Pirola, G. Pezzotta, M-Z.						
				2AM 11:00-12:40					Automation Technologies		Ouertani, R. Pinto	
	PSS Design and				A Conceptual Framework for Designing Informatics-based Services in	C-H. Lim, M-J. Kim, J-Y. Heo, K-J. Kim	Daniel Brissaud					
S16	Engineering IV	203	22AM		Manufacturing Industries System Dynamics Cycle Network of the Innovation Process of Product Service	P. Grüneisen, B. Stahl, D. Kasperek, M.	(FR)					
					Systems	Maurer, B. Lohmann						
					PSS Characterisation of Telecom Offerings	A. Lelah, T. Bauer, D. Brissaud						
					Coping with the Challenges of a Heterogeneous Working Context - A Unique	B-F. Voigt						
					Configuration of Individual Competencies for PSS Workers							
617	Organisational Competences and Capabilities		22.444	11.00 12.10	A Dynamic Capabilities Perspective on Service-Orientation in Demand-Supply	M.R. Rasouli, J.J.M. Trienekens, R.J. Kusters, P.W.P.J. Grefen	Nediae Dubrus (50)					
S17		206	22 AM	11:00-12:40	Chains	P.W.P.J. Grefen E. Numata, S. Hosono, H. Sakaki, S. Izukura,	Nadine Dubruc (FR)					
					Disciplines for Designing PSS Actor Network	K. Kimita, Y. Shimomura						
					Roleplay-based Assessment of IPS ² -specific Intellectual Capital	J.W. Wewior						
	PSS Case Studies and Lessons from Experience II				Ericsson - The History from Product to Solution Provider and Challenges and	S.W. Elfving, M. Lindahl, E. Sundin	Tim McAloone (DK)					
					Opportunities in an Evolving Environment From Ownership to Service-oriented Business Model: A Survey in Capital Goods	F. Adrodegari, A. Alghisi, N. Saccani, M.						
S18		212	22AM	M 11:00-12:40	Companies and a PSS Typology	Ardolino						
510				11.00 12.10	Excess Heat Based Integrated Product and Services Offerings	S. Päivärinne, M. Lindahl						
					Product-Service Business Concept Design: Realworld Case of a Small Furniture	Y-S. Kim, J. Lee, H. Lee, Y.S. Hong						
					Manufacturing Firm	1-3. NIII, J. LEE, H. LEE, T.S. HUIK	1					

S19	Organisational Issues and Transition Management II	224	22 AM	11:00-12:40	Change of Culture or Culture of Change? Introducing a Path-Agency-Culture (PAC) Framework to Servitization Research Towards a Meta-model for Description of Sociotechnical Perspective in Product- Service Systems Who Realizes a PSS? An Organizational Framework for PSS Development Partnering as a Stepping Stone in the Transition to PSS for the Construction Industry	A. Lienert C. Hollauer, J. Wilberg, M. Omer K. Kimita, K. Watanabe, T. Hara, H. Komoto S. Lingegård, M. Lindahl	Sophie Peillon (FR)
S20	PSS Design and Engineering V	203	22 PM	14:00-15:40	Bibliometric Analysis of the Product-Service System Research Field Territory Based Industrial Product-Service System design Interactions between Service and Product Lifecycle Management Maintenance of Shape Memory Actuator Systems - Applications, Processes and Business Models	M.G. Oliveira, G.H.S. Mendes, H. Rozenfeld K. Vadoudi S.A. Wiesner, M. Freitag, I. Westphal, K-D. Thoben C. Rathmann, T. Remmetz, D. Kreimeier	Giuditta Pezzotta (IT)
S21	SPECIAL SESSION Mass Customisation and PSS for Leveraging Sustainability	206	22PM	14:00-15:40	Decision Making Support to Mitigate Variety Impact on Sustainability Development of a PSS-oriented Business Model for Customized Production in Healthcare Employing Smart Units and Servitization towards Reconfigurability of Manufacturing Processes Leveraging the Sustainability Potential of Mass Customization through Product Service Systems in the Consumer Electronics Industry	K. Medini, X. Boucher G. Pourabdollahian, G. Copani S. Brad, M. Murar S. Hankammer, F. Steiner	Khaled Medini (FR)
S22	Sustainability and PSS II	212	22PM	14:00-15:40	Local Value Creation and Eco-design: A New Paradigm Investigating Sustainability Assessment Methods of Product-Service Systems Comparing Three Telecom Offers and PSS	B. Tyl, I. Lizarralde, R. Allais B. Doualle, K. Medini, X. Boucher, V. Laforest T. Bauer, A. Lelah, D. Brissaud	Alan Lelah (FR)
S23	Modelling Methods for PSS Engineering	224	22PM	14:00-15:40	Service Value Stream Mapping in Industrial Product-Service System Performance Management An Approach to Reveal Starting Points for PSS Design Support with Dynamic Models A Knowledge-based Assistant for Real-time Planning and Execution of PSS Engineering Chance Processes A Guideline for Product-Service-Systems Design Process	F. Morlock, H. Meier N. Hirth, S. Maisenbacher, D. Kasperek, C. Hollauer, M. Maurer Y. Aidi K. Muto, K. Kimita, Y. Shimomura	Yoshiki Shimomura (JP)



Game Day

13/05/2015

Session number	Session name	Room	Date	Hours	Title	Lecturers
	Educational Game Experimentations	111			Integrating product and service dominated logics - A PSS Management Simulation Game 2: B-to-Green An educational game focused on innovation and eco-innovation mechanisms Game 3: WinSim	T. Süße & B-F. Voigt, Ruhr-University Bochum
GD I		121 20PM	20PM	1 1110 10110		S. Mayer, Pôle ecoconception Saint-Etienne
		211				P. Burlat, Ecole des mines de Saint-Etienne
	Panel & Discussion	Bridging the mir			How to design efficient educational games	Prof. Yoshiki Shimomura, Tokyo Metropolitan University
GD II			Bridging the mindset-divide between product and service for PSS education	Thomas Süße, Ruhr-University Bochum		
					Round-Table	Conducted by Paul Wheal (Ecole des Mines de Saint-Etienne) and Bernd-Friedrich Voigt (Ruhr-University Bochum)



Industrial Day

13/05/2015

Session number	Session name	Room	Date	Hours	Title	Lecturers
IPSS	Opening Session	A022	21AM	8:30-9:00		
Ке	Keynote Session		21AM	9:00-10:30	Adaptation of various Product-Service offers, for dedicated answers to distinct types of usage	E. Grab, Michelin group Vice-President Strategic Anticipation and Innovation, Prospective and Sustainable Development
					Product/Service-Systems as the key to customer insight, product differentiation and increased sustainability performance	T. McAloone, Prof., CIRP & Technical University of Denmark
5	Industrial Case Studies	214	21AM	44 00 40 40	PSS in United Kingdom: Case studies from Man Trucks UK, Vitsoe, ICI explosives, Xerox, Alstom	V. Martinez, Cambridge Service Alliance
ID I				11:00-12:40	PSS in Sweden: Case studies from Toyota, Ericsson, Qlean Scandinavia	M. Lindahl, Linköping University
					PSS in France: SME Case studies from SFH, Automelec, AMVMeca	X. Boucher, Ecole des mines de Saint-Etienne
ID II	European Funding	214	21PM	14:00-15:40	A panorama of the last European funding schemes for industry in the H2O2O framework	P. Forminsyn, NCP, Research Department, EMSE & Institut Carnot Mines A. Bocquillon, theme leader, VIAMECA S. Gay, Head Office Europe, ARDI Rhône-Alpes
ID III	Industrial Round- Table	214	21PM	16:15-17:30	Clextral Renault Trucks Thales Group	 G. Maller, Vice president of Technologies P. Postel, in charge of service offering P-O. Robic, Manager for Future Services