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TALLINNA TEHNIKAÜLIKOOL
 TALLINN UNIVERSITY OF TECHNOLOGY



Wednesday, 20th April

Wednesday 20.04	18:00-20:00	Conference registration and Welcome. (TUT, library's cafe, 1st floor, Akadeemia tee 1 /Ehitajate tee 7)
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Thursday, 21st April

	Time		
	9:00-10:00	Conference registration and morning coffee at Tallink City Hotel (Conference Hall Cityside, 10 th floor)	
Room: Cityside	10:00	Opening: Vice Rector of Research Prof Renno Veinthal	
	10:05-11:00	Plenary session: Prof Jüri Riives (TUT/IMECC) "Industry 4.0 development in Estonia" Prof Petri Kuosmanen (AALTO) "Industrial Internet development in Aalto"	
Thursday, 21.04	11:00	Design and Production Engineering Room: Stockholm	Mechatronics and System Engineering Room: Helsinki
		Chair: Prof Sven Bossuyt	Chair: Dr Timo Ropponen

DAAAM Baltic 2016 Program

<p>Thursday, 21.04</p>	<p>11:00-13:00</p>	<p>Vartia, P.; Kuula, J.; Mäntyjärvi, V.; Berg, M.; Harju, J.; Simonsson, K.;</p> <p>Kiviluoma, P.; Korhonen, A. & Kuosmanen, P DESIGN PROCESS OF A CONCEPTUAL INTERACTIVE ARTWORK</p> <p>Luthada, P.; Goletic, E.; Ala Puig, O.; Shah, V.; Tai, Q.; Kiviluoma, P.; Korhonen, A.; Partanen, J.; & Kuosmanen, P. LASER CUTTING OF DRY CARBON FIBER</p> <p>Campbell, K.; Nichols, B.; Söderholm, C.; Ruippo, T.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P. TESTING POWDER DISTRIBUTION METHODS FOR SELECTIVE LASER SINTERING</p> <p>Raz, K.; Chval, Z. TEMPERATURE MONITORING DURING INJECTION MOLDING PROCESS</p> <p>Raz, K.; Chval, Z. FLOW ANALYSIS OF THE OPTIMAL PANTOGRAPH POSITION AND DESIGN</p> <p>D. Kubátová, M. Melichar, A. Pereira STUDY COMPARATIVE OF TRIBOLOGICAL BEHAVIOUR OF POLYAMIDE AND ABS POLYMERS AFTER PROCESSING BY INJECTION</p>	<p>Hassi, T.; Korva, A.; Markkula, S.; Partanen, T.; Sourander, T.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P IMPROVING ENERGY EFFICIENCY OF AN ELECTRIC MINI EXCAVATOR</p> <p>Krivosheev, S.; Borisov, I.; Olejnik, R.; Reznikov, S VARIOUS CONTROL STRATEGIES FOR THE ARTIFICIAL HAND USING SURFACE EMG SENSORS: FIRST EXPERIMENTS AND RESULTS</p> <p>Bayat Mokhtari, B; Hyvärinen, J; Laine, J; Lunkka, J; Kiviluoma, P. Korhonen, A. & Kuosmanen, P. LINEAR MODULAR CALIBRATION RIG FOR SAR PANEL</p> <p>Niinikoski, J.; Ewalds, J.; Heikkinen, E.; Kotilainen, J.; Kääriäinen, M.; Tammi, K.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P METHODS FOR REDUCING EMISSIONS OF SMALL INTERNAL COMBUSTION ENGINES</p> <p>Vu TrieuMinh; Tamre M; Hudjakov R; Shvarts D; Polder A; Hiiemaa M; Juurma M CONTROL OF AUTONOMOUS MOBILE ROBOTS USING WIRELESS NETWORK AND MATLAB</p> <p>Ovchinnikov I ; Minh VT & Kovalenko P MODELING HUMAN GAIT BASED ON MODEL PREDICTIVE CONTROL</p>
	<p>13:00-14:00</p>	<p>LUNCH</p>	

DAAAM Baltic 2016 Program

Thursday, 21.04	14:00	Design and Production Engineering Room: Stockholm	Mechatronics and System Engineering Room: Helsinki
		Chair: Dr Kristo Karjust	Chair: Prof Mart Tamre
Thursday, 21.04	14:00-16:00	<p>Kaganski, S.; Karjust, K. & Majak, J.. PRIORITIZATION OF KEY PERFORMANCE INDICATORS FOR SMALL AND MEDIUM ENTERPRICES</p> <p>Maceika, A. & Šostak, O. R.. DELPHI METHOD APPLICATION FOR ENGINEERING</p> <p>Maceika, A. & Zabieliavičienė, I. INTERFERENCES AFFECTING CREATIVITY OF INNOVATION TEAM</p> <p>Stekleins A., Gerins E., Kromanis A ANALYSIS OF SELECTION CRITERIA FOR VACUUM GAUGES AND ITS ACCURACY</p> <p>A. Logins, P. Rosado Castellano, T. Torims, S. C. Gutiérrez Rubert, F. Sergejev EXPERIMENTAL ANALYSIS OF FLAT END MILLING TOOL INCLINATION ERROR INFLUENCE ON SURFACE 3D TOPOGRAPHY PARAMETERS</p> <p>Harf, M. & Grossschmidt, G. USING MULTI-POLE MODELING AND INTELLIGENT SIMULATION IN DESIGN OF A HYDRAULIC DRIVE WITH TWO-DIRECTIONAL FLOW REGULATING VALVE</p>	<p>Viitala, R.; Tätilä, I.; Aho, R.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P. BACKUP BEARING TESTING DEVICE FOR ACTIVE MAGNETIC BEARING</p> <p>Turchinovich N., Krokhalleva N., Monahov U., Sivitski A., Perepelkina S., Penkov I., Aryassov G CALCULATION OF OPTIMAL DESIGN FOR KNEE JOINT SMART ORTHOSIS</p> <p>Nordal, D.; Torppala, V.; Nguyen, T.; Leinonen, S.; Kiviluoma, P.; Korhonen, A.; Kuosmanen, P.; Aho, P. & Venermo, M DEVELOPMENT OF MECHANOCHEMICAL ABLATION CATHETER</p> <p>Krokhalleva, N.; Turchinovich, N.; Ovchinnikov, I.; Penkov, I.; Aryassov, G.; Perepelkina, S., Reznikov., S MOTION MODELING OF THE HUMAN LOWER LIMB, SUPPORTED BY ORTHOSES</p> <p>Liyanage, D.C; Hiiemaa, M. & Tamre, M. MOTION CONTROL SYSTEM FOR SHIP MODEL TOWING TEST TANK CONTROL SYSTEM USING SYNCHRONOUS SERVO DRIVES</p> <p>Vu Trieu Minh; Riva. INTELLIGENT KITCHEN MODEL FOR SMART HOMES</p>
16:00-16:30	Coffee Break		

DAAAM Baltic 2016 Program

Thursday, 21.04	16:30	Design and Production Engineering Room: Stockholm	Mechatronics and System Engineering Room: Helsinki
		Chair: Prof Tauno Otto	Chair: Prof Trieu Minh Vu
Thursday, 21.04	16:30-18:30	<p>Polukoshko, S; Martinovs, A & Sokolova, S. EXPERIMENTAL AND THEORETICAL RESEARCH OF STIFFNESS OF BONDED HOLLOW CYLINDRICAL RUBBER BLOCK</p> <p>Kukrus A., Lumiste R., ADAPTATION OF ENGINEERING PRODUCTS TO FOREIGN MARKETS</p> <p>Källo, R., Eerme, M. & Reedik, V. EMPOWERING SYNERGY DYNAMICS IN CHAOS CONTROL IN HIERARCHICAL TEAMWORK</p> <p>Sonk, K.; Hermaste, A.; Sarkans, M. & Paavel, M. USING FUNCTIONAL REQUIREMENTS TO DETERMINE OPTIMAL ADDITIVE MANUFACTURING TECHNOLOGY</p> <p>Haavajõe, A.; Mikola, M.; Osali, H.; Pohlak, M.; Majak, J. & Herranen, H. STEERED FIBER COMPOSITE LAMINATES. EXPERIMENTAL STUDY</p> <p>Nuzhdin, K. INVESTIGATION OF ELECTRICAL PHENOMENA OCCURRING IN FRICTION PROCESSES</p>	<p>Paukkunen, L.; Boxström, J.; Karlsson, J.;Komu, M.; Paloniemi, M.; Kajaste, J.; Kiviluoma, P.; Korhonen, A. & Kuosmanen,P. IMPROVEMENT OF PNEUMATIC FOOTBALL KICKING DEVICE BASED ON IMITATION OF HUMAN DYNAMICS</p> <p>Coren, F.; Lehto, M.; Palestini, C.; Bossuyt, S.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P. MICROCONTACT PRINTING ON METALLIC SURFACES FOR OPTICAL DEFORMATION MEASUREMENTS</p> <p>Sinani, U.; Sajedi, N.; Hiiemaa, M. & Tamre, M. ROLLING TYRE COUNTING SYSTEM</p> <p>Dhoska, K.; Hofer, H.; López, M.; Rodiek, B.; Kübarsepp, T. & Kück, S. DETECTION EFFICIENCY CALIBRATION OF SI-SPAD DETECTORS VIA COMPARISON WITH A SI-STANDARD DIODE</p> <p>Koop, R.; Braziulis, D.; Olabode, O.F.; Pecollari, K.; Gunasekaran, B.; Juurma, M.; Tamre, M. & Hiiemaa, M DESIGN AND DEVELOPMENT OF THE OPTICAL SYSTEM FOR THE NANOSATELLITE USING RAPID MANUFACTURING</p> <p>Abouelkheir Moustafa; Vu Trieu Minh MODELING AND SIMULATION OF DUAL CLUTCH TRANSMISSION AND HYBRID ELECTRIC VEHICLES</p>
	18:30-21:00	Evening session in Tallink City Hotel	

Friday, 22th April		
9.00 Morning coffee at Tallinn University of Technology, Room SOC-209		
Room: SOC-209	9:30-10:30	Plenary session: Opening: Ieva Pranka (University of Latvia) Prof Sönke Reise (Wismar University of Applied Science) “Vessel size and container terminals” Assoc Prof Dieter Meissner (TUT) “Sustainable Transport from Research Point of View”
	10:30	Design and Production Engineering Room: U05-216
		Mechatronics and System Engineering Room: SOC-209
		Chair: Dr Jüri Majak
		Chair: Prof Toomas Kübarsepp
Friday, 22.04	10:30-11:30	<p>Imran Aziz , Rohul Amin, Jüri Majak NUMERICAL SOLUTION OF A CLASS OF FRACTIONAL DELAY DIFFERENTIAL EQUATIONS VIA HAAR WAVELET</p> <p>M.Kirs, J.Majak, K.Karjust, I.Aziz, E.Õunapuu A COMPARISON OF NUMERICAL METHODS FOR ANALYSIS OF FGM STRUCTURES</p> <p>E.Õunapuu, M.Eerme, J.Majak. STRESS-STRAIN ANALYSIS OF LAMINATED GLASS PLATES WITH INTERLAYER</p> <p>S. Panin, I. Vlasov, V. Sergeev, A. Ziganshin, P. Maruschak, O. Prentkovskis EFFECT OF ION AND ELECTRON BEAM AS WELL AS ULTRASONIC TREATMENTS ON STRUCTURE AND PROPERTIES OF 12Cr1MoV STEEL</p>
		<p>Wilkman, V.; Hautaniemi, L.; Vaari, A-M.; Wahlroos, V.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P. ELECTRONIC LOCK MECHANISM FOR BICYCLE</p> <p>McKay, M.; Isometsä, J.; Wirtanen, K.; Hietala, J.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P.. INTELLIGENT VEHICLE DEVELOPMENT PLATFORM</p> <p>Lintilä, T.; Hyvärinen, V.; Kariniemi, R.; KC, A.; Nurmi, L.; Liukkonen T.; Viinikka, S.; Kiviluoma, P.; Korhonen, A. & Kuosmanen, P. DEVELOPMENT OF COMPUTER VISION BASED FACE TRACKING MEASUREMENT FOR SITTING ERGONOMICS</p> <p>Moezzi Reza; Vu Trieu Min FUZZY LOGIC CONTROL FOR NON-LINEAR MODEL OF THE BALL AND BEAM SYSTEM</p>
	11:30-12:00	Coffee Break
Room: SOC-209	12:00-13:00	Conference plenary session: Prof Jan Gulliksen (Dean of the School of Computer Science and Communication, KTH/ The Digital Champion of Sweden) - "Future challenges of education and digitization"
	13:00-14:00	Lunch
	14:00-16:00	Visiting TUT laboratories and Mehhatroonikum