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Session Overview

Date: Wednesday, 04/Jul/2012

9:15am -	Op: Opening Location: HS A - Lecture Hall Chair: Klaus Gürlebeck	
9:30am -	P-1: Plenary Session Location: HS A - Lecture Hall Chair: Klaus Gürlebeck	
10:30am	<i>Presentations</i> Interaction modeling for mechanized tunneling Schanz, Tom	
10:45am -	S1-1A: Parallel Session Location: Room 004 Chair: Wolfgang Sprößig	S1-1B: Parallel Session Location: Room 303 Chair: Michał Musiał
12:15pm	<i>Presentations</i> Mean value properties for the Weinstein equation and modified Dirac operators Eriksson, Sirkka-Liisa	<i>Presentations</i> Discrete crack model of Borcz for calculating the deflections of bending reinforced concrete beam Musiał, Michał; Kamiński, Mieczysław; Ubysz, Andrzej
	Complete orthogonal systems of 3D spheroidal monogenics Morais, Joao	Extended isogeometric analysis based crack identification applying multilevel regularizing methods Lahmer, Tom; Ghorashi, Shahram
	On a quaternionic function theory arising from a factorization of the Schrödinger operator with potential of a special form. Luna-Elizarraras, Maria Elena	T-SPLINE BASED XIGA FOR ADAPTIVE MODELING OF CRACKED BODIES Ghorashi, Seyed Shahram; Rabczuk, Timon; Ródenas García, Juan José; Lahmer, Tom
1:30pm -	S1-2A: Parallel Session Location: Room 106 Chair: Tom Lahmer	S1-2B: Parallel Session Location: Room 202 Chair: Tom Schanz
3:00pm	<i>Presentations</i> Wavelet-based Indicators for Response Surface Models in Damage Identification of Structures Ahmad, Sofyan; Zabel, Volkmar; Könke, Carsten	<i>Presentations</i> Influence of different data types for the estimation of hydromechanical parameters for a water retaining dam using synthetic data De Aguinaga, José Guillermo
	On the Inverse Problems for the Coupled Continuum Pipe Flow model for flows in karst aquifers Lu, Shuai	Uncertainty quantification in cyclic creep prediction of concrete Motra, Hem Bahadur; Osburg, Andrea Dimmig; Hildebrand, Joerg
	System identification methods for ground models in mechanized tunneling Miro, Shorash; Hartmann, Dietrich; Schanz, Tom; Zarev, Veselin	Constitutive Modeling of Crystalline Materials with Texture Characteristics Wudtke, Idna
3:15pm -	S1-3A: Parallel Session Location: Room 106 Chair: Maria Elena Luna-Elizarraras	S1-3B: Parallel Session Location: Room 202 Chair: Frank Werner
4:45pm	<i>Presentations</i> Computation of the reflectance and transmittance for an inhomogeneous layered medium with turning point using the WKB and SPPS methods Castillo-Pérez, Raúl; Cedillo-Díaz, Azucena del Carmen; Oviedo-Galdeano, Héctor; Kravchenko, Vladislav V.	<i>Presentations</i> The influence of the local concavity on the functioning of bearing shell of high-rise construction Kulchytskyy, Artem; Horokhov, Yevgen; Gubanov, Vadim; Golikov, Alexandr
	Some Harmonic analysis on Möbius strip domains and the Klein bottle in \mathbb{R}^n Kraußhar, Rolf Sören	Analysis of the mode of deformation of the sub-pulley structures on shaft sloping headgear structures Nechytailo, Oleksandr; Horokhov, Yevgen; Kushchenko, Vladimir
	Orthogonal decompositions and their applications Le, Hoai Thu; Morais, Joao; Sprößig, Wolfgang	Robustness in Civil Engineering - Influences of the Structural Model on the Evaluation of the Structural Robustness Scheiber, Frank

Date: Thursday, 05/Jul/2012

<p>9:00am - 10:00am</p>	<p>P-2: Plenary Session Location: HS A - Lecture Hall Chair: Helmuth R. Malonek</p> <p><i>Presentations</i></p> <p>Some aspects of hypercomplex analysis and its applications -- past and presence <u>Sprößig, Wolfgang</u></p>	
<p>10:15am - 11:45am</p>	<p>S2-1A: Parallel Session Location: Room 004 Chair: Sirkka-Liisa Eriksson</p> <p><i>Presentations</i></p> <p>Totally regular variables and Appell sequences in Hypercomplex Function Theory <u>Malonek, Helmuth R.</u>; Cruz, Carla; Falcão, M. Irene</p> <hr/> <p>On M-conformal mappings and geometric properties <u>Nguyen, Manh Hung</u>; Guerlebeck, Klaus</p> <hr/> <p>Integral manifolds for semi-linear evolution equations and admissibility of function spaces <u>Vu, Thi Ngoc Ha</u></p>	<p>S2-1B: Parallel Session Location: Room 303 Chair: Volkmar Zabel</p> <p><i>Presentations</i></p> <p>Model Quality Evaluation of Coupled RC Frame-Wall Systems for Global Damage Assessment <u>Marzban, Samira</u>; Schwarz, Jochen</p> <hr/> <p>Evaluation of Soil-Structure Interaction models using different modelrobustness measures <u>Stutz, Henning</u>; Wuttke, Frank</p> <hr/> <p>Quantifying the quality of partial model coupling and its effect on the simulated structural behavior <u>Keitel, Holger</u></p>
<p>1:00pm - 2:30pm</p>	<p>S2-2A: Parallel Session Location: Room 101 Chair: Shuai Lu</p> <p><i>Presentations</i></p> <p>Rotational ductility of crack in static and dynamic calculations of reinforced concrete bar structures <u>Musiał, Michał</u>; Ubysz, Andrzej</p> <hr/> <p>Model describing static and dynamic displacements of silos wall during the flow of loose material <u>Musiał, Michał</u>; <u>Ubysz, Andrzej</u>; Ulatowski, Piotr</p> <hr/> <p>System identification of a wind turbine structure using robust model updating strategy <u>Liu, Xiangqin</u>; Leimbach, Robert; Hartmann, Dietrich</p>	<p>S2-2B: Parallel Session Location: Room 202 Chair: Yilmaz Simsek</p> <p><i>Presentations</i></p> <p>The problem of coupling between analytical solution and finite element method <u>Legatiuk, Dmitrii</u>; Bock, Sebastian; Guerlebeck, Klaus</p> <hr/> <p>Split Quaternionic Analysis and Representation Theory <u>Libine, Matvei</u></p> <hr/> <p>A note on the Clifford Fourier-Stieltjes transform <u>Morais, Joao</u>; Georgiev, Svetlin; Sproessig, Wolfgang</p>
<p>2:45pm - 4:15pm</p>	<p>S2-3A: Parallel Session Location: Room 101 Chair: Joao Morais</p> <p><i>Presentations</i></p> <p>On interpolation function of the Bernstein polynomials <u>Simsek, Yilmaz</u></p> <hr/> <p>Binary and ternary Clifford analysis on Nonion algebra and $su(3)$ Lawrynowicz, Julian; Nouno, Kiyoharu; <u>Suzuki, Osamu</u>; Nagayama, Daiki</p>	<p>S2-3B: Parallel Session Location: Room 202 Chair: Guido Morgenthal</p> <p><i>Presentations</i></p> <p>Model combinations for assessing the flutter stability of suspension bridges <u>Abbas, Tajammal</u>; Morgenthal, Guido</p> <hr/> <p>Assessment of Integral Bridges using Quantitative Model Evaluation <u>Jung, Bastian</u>; Morgenthal, Guido</p> <hr/> <p>Dependency of the influence of input parameters of BVI models on the initial excitations and speed ranges <u>Karaki, Ghada</u></p>
<p>4:30pm - 5:30pm</p>	<p>S2-4: Late Session Location: HS C - Lecture Hall Chair: Klaus Gürlebeck Presentation and discussion will be in German</p> <p><i>Presentations</i></p> <p>Bauhaus Isometry and Fields <u>Schmeikal, Bernd Anton</u></p>	

Date: Friday, 06/Jul/2012

9:00am - 10:00am	P-3: Plenary Session Location: HS A - Lecture Hall Chair: Frank Werner <i>Presentations</i> Solar Updraft Power Plants - From structural engineering to multi-physics simulations <u>Krätzig, Wilfried B.</u>	
10:00am - 11:00am	P-4: Plenary Session Location: HS A - Lecture Hall Chair: Frank Werner <i>Presentations</i> Solving coupled problems in civil engineering by chaining conceptually different submodels - a Computational Engineering view <u>Hartmann, Dietrich</u>	
11:15am - 12:15pm	P-5: Plenary Session Location: HS A - Lecture Hall Chair: Eckhard Hitzer <i>Presentations</i> Introduction to Geometric Algebra <u>Benger, Werner</u>	
1:30pm - 3:00pm	S3-1A: Parallel Session Location: Room 004 Chair: Werner Benger <i>Presentations</i> The Clifford Fourier transform in real Clifford algebras <u>Hitzer, Eckhard</u> Formalizing Grassmann-Cayley and Clifford algebras in the Coq proof Assistant <u>Fuchs, Laurent</u>; They, Laurent New foundations for geometric algebra <u>Gonzalez Calvet, Ramon</u>	S3-1B: Parallel Session Location: Room 303 Chair: José Guillermo De Aguinaga <i>Presentations</i> The application of POD curves to damage detection based on partial models– a numerical and experimental study <u>Deeb, Maher</u>; Zabel, Volkmar Thermo-Hydro-Mechanical Coupling Analysis of Saturated Poroelastic Column fulfilling Thermal Non-equilibrium Condition <u>Yang, Yang</u>; Guerlebeck, Klaus; Schanz, Tom; Steeb, Holger A small to large strain stiffness macroelement for shallow foundation. <u>Kafle, Binod</u>; Wuttke, Frank
3:15pm - 5:15pm	S3-2A: Parallel Session Location: Room 004 Chair: Matvei Libine <i>Presentations</i> The Gaussian and other kernels in discrete Clifford analysis <u>Bernstein, Swanhild</u>; Baaske, Franka; de Ridder, Hilde; Sommen, Frank The inversion of the Radon transform on the rotation group <u>Hielscher, Ralf</u> Illustrating Differential Geometry via Geometric Algebra of Color Space <u>Benger, Werner</u> Software Demo <u>Benger, Werner</u>	