

**The 9th International Conference on Analysis of Discontinuous Deformation  
"New Developments and Applications" 25-27 November 2009  
Accepted Full Papers List**

No	Abstract No	Title	Name	Organisation	Abstract_title	Authors
1	ICADD9-001	Mr.	Riccardo Vesipa	Royal Institute Of Technology, Stockholm, Sweden	Estimating hydraulic permeability of fractured crystalline rocks using geometrical parameters	R. VESIPA, Z. ZHAO and L. JING
2	ICADD9-002	Dr.	S.Amir Reza Beyabanaki	Pooyesh Rah Mandegar Consulting Engineers, No. 48, Shahr-Tash Alley, North Sohrevardi Avenue, Tehran	Contact Theory for Deformable Blocks in Three-Dimensional Discontinuous Deformation Analysis	S. Amir Reza Beyabanaki and M. Ronald Yeung
3	ICADD9-004	Prof.	Chen Xin	China University Of Mining & Technology ( Beijing)	NUMERICAL SIMULATION OF FRICTIONAL CONTACT PROBLEMS IN LARGE DEFORMATION OF DEEP SOFT ROCK ENGINEERING	Chen Xin, Guo Hongyun, Xi Shouzhong, Tang Juzheng, He Manchao
4	ICADD9-009	Dr.	Ning Youjun	State Key Laboratory Of Explosion Science And Technology, Beijing Institute Of Technology	Contact Improvement of DDA and Stress Wave Propagation Characteristics of DDA Block System	Ning Youjun, <u>Yang Jun</u> , Chen Pengwan
5	ICADD9-010	Dr.	Ning Youjun	State Key Laboratory Of Explosion Science And Technology, Beijing Institute Of Technology	DDA for Dynamic Failure Problems and Its Application in Rock Blasting Simulation	Ning Youjun, <u>Yang Jun</u> , Chen Pengwan
6	ICADD9-012	Dr.	Liu Yong-Qian	Beijing Institute Of Technology	Study on Roof Caving Problem with DDA Method	LIU Yong-qian, YANG Jun, CHEN Peng-wan, NING You-jun
7	ICADD9-013	Dr.	Su Haidong	DDA Center, Yangtze River Scientific Research Institute	Initial stress formulae for high-order numerical manifold method and high order DDA	SU Haidong, XIE Xiaoling
8	ICADD9-015	Prof.	Cui Hong Qing	Henan Polytechnic University, Jiaozuo, P.R.China	Fault Studies and Coal-gas-outburst Forecast in Coal Mines	CUI Hongqing, JIA Xiaoliang, XUE Zhipeng, YANG Fuling
9	ICADD9-016	Mr.	Heinz Hagedorn	Amberg Engineering AG	Gotthard Base Tunnel: UDEC Simulations of Micro Tremors and Rock Bursts encountered during construct	Einz Hagedorn, Rolf Stadelmann
10	ICADD9-017	Dr.	Shigeru MIKI	Kiso-Jiban Consultants Co., Ltd.	Development of Coupled Discontinuous Deformation analysis and Numerical Manifold Method (NMM-DDA) an	S. MIKI, T. SASAKI, S. KOYAMA, S. NISHIYAMA, Y. OHNISHI
11	ICADD9-021	Dr.	Sasaki Takeshi	Suncoh Consultants Co. Ltd.	Stability analysis of ancient block structures by using DDA and Manifold method	Sasaki, T., Hagiwara, I., Sasaki, K., Yoshinaka, R., Ohnishi, Y., Nishiyama, S., Koyama, T.
12	ICADD9-023	Dr.	Miao Qinghai	Chinese Academy Of Sciences	Parallel Computing of Numerical Manifold Method	Qinghai Miao, Jian Xue, Ying Wang
13	ICADD9-024	Dr.	Zhao Zhi Ye	Nanyang Technological University	An Improvement to Vertex-vertex Contact in Discontinuous Deformation Analysis	Huirong Bao, Zhiye Zhao
14	ICADD9-027	Prof.	Zheng Hong	Institute Of Rock And Soil Mechanics, Chinese Academy Of Sciences	Complementary formulation of discontinuous deformation analysis	Hong Zheng, Wei Jiang
15	ICADD9-030	Dr.	Wang Shanyong	The University Of Newcastle, Australia	Numerical simulation of the rock fragmentation	S.Y.Wang, S. W. Sloan, C. A. Tang

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16	ICADD9-032	Dr.	Yang Wenjun	Geotechnical Research Institute Of Hohai University	Application of the Optimization for Rock Tunnel Trend by Block Theory	Yang Wenjun, Hong Baoning, Sun Shaorui, Zhu Lei
17	ICADD9-033	Dr.	Jian Xue	Graduate University Of The Chinese Academy Of Sciences	Accelerated Block Sectioning Algorithm Based on Half-Edge Data Structure	Jian Xue
18	ICADD9-035	Mr.	Tae-Yong Ahn	Seoul National University	A New Contact Method Using Inscribed Sphere for 3D Discontinuous Deformation Analysis	Tae-Young Ahn, Jae-Joon Song.
19	ICADD9-036	Prof.	Tsuyoshi Nishimura	Tottori University	An Investigation of Numerical Damping for Modeling of Impact	Tsuyoshi NISHIMURA
20	ICADD9-037	Prof.	Norio Takeuchi	Hosei University	Development of Modified RBSM for Rock Mechanics using Principle of Hybrid-type Virtual Work	Takeuchi, N., Tajiri, Y. and Hamasaki, E.
21	ICADD9-039	Dr.	Reza Rahmamejad	Bahonar University Of Kerman	Investigation of Effect of Joint Parameters on Deformations of Tunnels in Anisotropy Media Using UDE	Reza Rahmamejad ; Omid Ali mohammadi ; Hamid Mohammadi
22	ICADD9-040	Mr.	Ali Kargar	Mining Engineering Department Of Bahonar University Of Kerman	Consideration of dilatancy angle in ground response curves of rock masses	Ali reza kargar, reza rahmamejad
23	ICADD9-041	Dr.	Mao Kurumatani	Tohoku University	An analysis of dynamic tensile fracture in concrete under high strain rate	Mao Kurumatani, Satoshi Iwata, Kenjiro Terada, Shigenobu Okazawa and Kazuo Kashiwama
24	ICADD9-042	Prof.	Ma Guowei	School Of Civil And Environmental Engineering, Nanyang Technological University	A Modified Equivalent Media Method for P-wave Attenuation across Rock Mass with Parallel Joints	L.F. Fan, G.W. Ma
25	ICADD9-044	Ms.	Zhuang Xiao Ying	DURHAM UNIVERSITY	High Rock Slope Stability Analysis Using The Meshless Shepard And Least Squares Method	XIAOYING ZHUANG
26	ICADD9-046	Mr.	Chong Wai Loong	Monash University Australia	Numerical modelling of laboratory behaviour of laterally loaded piles socketed into jointed rocks	WL Chong, A Haque, PG Ranjith and AKM Shahinuzzaman
27	ICADD9-047	Dr.	Tomofumi Koyama	Kyoto University	Application of Manifold Method (MM) to the stability problem for cut slope along the national roads	Y Ohnishi, T Koyama, K Yagi, T Kobayashi, S Miki, T Nakai and Y Maruki
28	ICADD9-048	Mr.	Ang Boon Chye, Rudy	JURONG Consultants Pte Ltd	Behaviour of Singapore Rocks under Uniaxial & Triaxial Loading	Rudy ANG Boon Chye
29	ICADD9-049	Prof.	Shi Guangbin	Northwest Investigation Design & Research Institute	study on failure Characteristics and support measure of Layer structure_ cataclasm rock mass	Shi GuangBin
30	ICADD9-052	Prof.	Lin Shao Zhong	Yangtze River Scientific Research Institute	Stability analysis of Expansive Soil Slope using DDA	Lin Shaozhong, Qiu Kuanhong

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31	ICADD9-053	Dr.	Yu Tian Tang	Hohai University	Simulation of crack growth with Discrete Element Method	Tiantang Yu and Shengxu Xia
32	ICADD9-055	Dr.	Dimitrios Kourepinis	Halcrow Group Ltd.	Resolution of Boundary Deformability and Numerical Convergence in the Higher-Order NMM	D. Kourepinis, C. J. Pearce, N. Bicanic
33	ICADD9-057	Mr.	Irie Kei	Kyoto University	DDA simulations for huge landslides in Aratozawa area, Miyagi, Japan caused by Iwate-Miyagi Nairiku	Irie K, Koyama T, Hamasaki E, Nishiyama S, Shimaoka K and Ohnishi Y
34	ICADD9-058	Prof.	Wu Aiqing	Yangtze River Scientific Research Institute, P.R.China	STUDY ON THE FORMATION MECHANISM OF TANJIASHAN LANDSLIDE TRIGGERED BY WENCHUAN EARTHQUAKE USING DDA	WU Aiqing;CHEN Lingling , Lu Bo, ZHANG Lian
35	ICADD9-059	Dr.	Lu Bo	Yangtze River Scientific Research Institute, China	Rock Block Stability Analysis of Quarry Wall?A Case Study	Lu Bo, DingXiuli, Wuaiqing
36	ICADD9-060	Dr.	Chulwhan Park	Korea Institute Of Geoscience And Mineral Resources	Suggestion of equations to Determine the Elastic Constants	Chulwhan Park, Chan Park and Jong-Woo Kim
37	ICADD9-061	Prof.	Seokwon Jeon	Seoul National University	Distinct element analysis on the stability of a stone pagoda at Mireuk Temple in Korea	Hyun-Woo Kim, Seokwon Jeon
38	ICADD9-063	Prof.	Yossef Hatzor	Ben-Gurion University Of The Negev	Modelling dynamic deformation in natural rock slopes, masonry structures, and underground openings with DDA	Yossef H. Hatzor, Ilia Wainshtein, and Dagan Bakun-Mazor
39	ICADD9-064	Mr.	Chua Heng Choon	Nanyang Technological University	Distinct Element Analysis of Stage Constructed Underground Cavern in the Vicinity of a Fault	H.C. Chua, A.T.C. Goh, Z.Y. Zhao
40	ICADD9-068	Dr.	So Keul Chung	Korea Institute Of Geoscience And Mineral Resources	Numerical experiment on thermo-mechanical behavior of jointed rock masses under cryogenic conditions	so-Keul Chung, Eui-Seob park, Yong-Bok Jung, Taek Kon Kim
41	ICADD9-069	Dr.	Eui-Seob Park	Korea Institute Of Geoscience And Mineral Resources	NUMERICAL EXPERIMENT ON THE MECHANICAL BEHAVIOR OF JOINTED ROCK MASSES BY USING PFC	Eui-Seob Park, Dae-Sung Cheon, Chan Park, Hee-Soon Shin
42	ICADD9-070	Prof.	Zhao Jun Hai	Chang An Univeristy, Xi'an, China	Finite element analysis of concrete filled steel tubular columns	Zhao Jun-hai, Wei Xue-ying, Ma Shu-fang
43	ICADD9-072	Dr.	Alireza Baghbanan	Mining Eng Dept, Isfahan Univ. Of Tech.	UDEC Simulation of Block Stability Analysis around a Large Cavern	Ahad Sookhak, Alireza Baghbanan, Mehdi Bagheri
44	ICADD9-073	Dr.	Zhao Zhi Ye	Nanyang Technological University	Nodal- Based DDA : Theory and application	Huirong Bao, Zhiye Zhao
45	ICADD9-074	Dr.	Mohammad Hajiazizi	Semnan University	The Application of Meshless Methods in Analysis of Discontinuous	M. Hajiazizi

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46	ICADD9-075	Dr.	Dimitrios Kourepinis	Halcrow Group Ltd.	NMM and XFEM – A Comparison from the Perspective of Discontinuous Deformation Analysis	D. Kourepinis, C. J. Pearce, N. Bicanic
47	ICADD9-076	Dr.	Louis Wong	Nanyang Technological University	Process Zone Development associated with Cracking Processes in Rock	Louis Wong
48	ICADD9-077	Dr.	Zhao Zhi Ye	Nanyang Technological University	Coupled Finite Element and DDA for Parallel Hole Cut Blasting in Rock Mass	Zhiye Zhao, Jiong Gu
49	ICADD9-083	Mr.	Ji Chen Liang	Nanjing University	Determination method of rock mass hydraulic conductivity tensor based on back-analysis of fracture transmissivity and fracture network model	Ji Cheng-liang, Li Xiao-zhao, Zhao Xiao-bao, Wang Zhi-tao, Shao Guan-hui, Wang Yi-zhuang
50	ICADD9-085	Mr.	Ning Jianguo	Key Laboratory Of Mine Disaster Prevention And Control, Shandong University Of Science & Technology	THE STUDY ON ZONAL DISINTEGRATION OF SURROUNDING ROCK IN DEEP MUDSTONE ROADWAY UNDER HIGH STRESS	Ning Jianguo, Tan Yunliang, Sun Chunjiang, Li Haitao
51	ICADD9-086	Prof.	Petr Prochazka	Association Of Czech Civil Engineers	Hereditary problems in long-wall mining by free hexagons	Petr Prochazka
52	ICADD9-089	Mr.	Huang Tao	China Institute Of Water Resources And Hydropower Research, Beijing	THE ANALYSIS OF STRUCTURE DEFORMATION USING DDA WITH THIRD ORDER DISPLACEMENT	Tao HUANG, Guoxin ZHANG, Xiaochu PENG
53	ICADD9-090	Prof.	Ma Guichen	Gifu University	Application of DDA to evaluate the dynamic behavior of submarine landslides which generated tsunamis	Guichen MA, Fumio Kaneko, Shinzaburo Hori
54	ICADD9-091	Prof.	Kamila Weiglova	TU Brno, Czech Republic	Mutual effect of tectonic dislocations and tunnel linings during tunneling	K. Weiglova, P. Prochazka, J. Bostik
55	ICADD9-092	Mrs.	Sayedeh Nasibeh Nourbakhsh Nia	National University Of Singapore-ACES	A novel Singular ES-FEM method for simulating singular stress fields near the crack tips for linear	G. R. Liu, N. Nourbakhshnia
56	ICADD9-093	Mr.	Dagan Bakun-Mazor	Ben-Gurion University, Israel	3D DDA vs. analytical solutions for dynamic sliding of a tetrahedral wedge	Bakun-Mazor D., Hatzor Y.H., and Glaser S.D.
57	ICADD9-095	Mr.	Lumir Mica	Brno University Of Technology	Numerical analysis of deep excavation affected by tectonic discontinuity	Lumir Mica, Vaclav Racansky
58	ICADD9-097	Dr.	Tetsuya Shimauchi	Meiji-Consultant Co.Ltd.Saitama333-0801,Japan	Concerning the influences of velocity ratio and topography model on the result of rockfall simulatio	T.Shimauchi.,K.Nakamura., N.Sakai., I.Hagieara., S.Nishiyama., Y.Ohnishi.
59	ICADD9-098	Dr.	Xu Chongbang	Tongji University	Application of strength reduction DDA method in stability analysis of road tunnels	Xia Caichu, Xu Chongbang
60	ICADD9-099	Mr.	Xiang Long	Southwest Jiaotong University	A numerical study of goaf stability under a desert expressway	Xiang Long, Chen Shougen, Huang Junwen

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62	ICADD9-101	Prof.	Shougen Chen	Southwest Jiaotong University, Chengdu, China	Analysis of large rock deformation under high in situ stress	Chen Shougen Zhang Heng Deng Xifei
63	ICADD9-102	Prof.	Masato Shinji	Yamaguchi University	The optimum distance of roof umbrella method for soft ground by using PFC	Yusuke Doi, Tatsuhiko Ootani and Masato Shinji
64	ICADD9-104	Dr.	Li Lianchong	School Of Civil And Hydraulic Engineering, Dalian University Of Technology	Modeling of three-dimensional hydrofracture in permeable rocks at high confining pressure and differ	L. C. Li, C. A. Tang, G. Li & Z. Z. Liang
65	ICADD9-105	Mr.	Gu Hongyuan	Southwest Jiaotong University, Chengdu, China	A study on hole-cutting in deep tunneling	Gu Hongyuan Chen Shougen Xiang Long
66	ICADD9-106	Prof.	Chen Shougen	Southwest Jiaotong University, Chengdu, China	3DEC Investigation On Slope Stability At Norwich Part Mine	S.G. CHEN and B. SHEN
67	ICADD9-107	Dr.	Liang Zhengzhao	Dalian University Of Technology, P.R.China	Numerical Study of Scale Effect on Rock Masses with Different Fractal Joints	Z.Z.Liang
68	ICADD9-108	Dr.	Satoyuki Tanaka	Hiroshima University	Crack propagation analysis using wavelet Galerkin method	Satoyuki Tanaka, Shigenobu Okazawa, Hiroshi Okada
69	ICADD9-111	Mr.	Michael Pfitzner	Beck Arndt Engineering	3D Simulation of Heavy Ground Support System Performance in Discontinuous Rockmasses	M. J. Pfitzner, D. A. Beck, F. Reusch
70	ICADD9-112	Dr.	Rajbal Singh	Central Soil And Materials Research Station (CSMRS), New Delhi, INDIA	Evaluation of Deformation around a Tunnel by using FEM, FEBEM, UDEC, UDEC-BE and CFS	Dr. Rajbal Singh
71	ICADD9-113	Prof.	Zhao Jian	Ecole Polytechnique Federale de Lausanne (EPFL)	Influence of Cobblestone Geometrical Property on Equivalent Elastic Modulus of Cobblestone-Soil Matr	M.Z. Gao, S.You, and J.Zhao
72	ICADD9-115	Prof.	Prof. Abbas Majdi	School of Mining Engineering, University College of Engineering, University of Tehran, Tehran, Iran	Comparative studies of physical and numerical modeling on regular discontinuities based on Bandis Eq	Abbas Majdi and Hessam Moghadamali
73	ICADD9-116	Prof.	Chen Gang	Department Of Mining And Geological Engineering	Probabilistic Key Block Analysis of a Mine Ventilation Shaft Stability – A Case Study	Prof. Chen Gang
74	ICADD9-117	Prof.	Prof. Abbas Majdi	School of Mining Engineering, University College of Engineering, University of Tehran, Tehran, Iran	Stability analysis of transformer cavern and the corresponding bus duct system at Siyah Bishe ...	Abbas Majdi, Kayumars Emad, and Hesam Moghadamali
75	ICADD9-120	Prof.	Zhang Chun Hui	Hebei University of Science and Technology	Model of coupled gas flow and deformation process in random fractured coal seams and its application	chun-hui zhang

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76	ICADD9-121	Prof.	Chen Pengwan	Beijing Institute of Technology	Micromechanical simulation of the damage and fracture behavior of a highly particle-filled composite	Huai Haoju, Chen Pengwan
77	ICADD9-122	Dr.	Yu Yongjiang	Liaoning Technical University	Model of Coupled Gas Flow and Deformation Process in Heterogeneous Coal Seams and its Application	YU Yongjiang ZHANG Chunhui WANG Daguo
78	ICADD9-123	Mr.	Behrooz Ferdowsi	Amirkabir University of Technology	Numerical Modeling of Undrained Cyclic Behavior of Granular Media Using Discrete Element Method	Behrooz Ferdowsi, Dr. Abbas Soroush, Roozbeh Shafipour
79	ICADD9-124	Dr.	Lin Yu Liang	Guangxi University, Nanning	The Application of Discontinuous Deformation Analysis in the Slope Stability of the Expansive Soil	Lin Yuliang and Wei Lingjing
80	ICADD9-125	Dr.	Wu Chenqing	School of Civil, Environmental and Mining Engineering, The University of Adelaide, SA, Australia	Numerical Simulation of Performance of Concrete-Filled FRP Tubes under Impact Loading	C. WU, T. OZBAKKLOGLU, G. MA
81	ICADD9-126	Prof	Liu Moubin	Institute of Mechanics Chinese Academy of Science	Simulation of Multiphase Fluid Motion in Pore-scale Fractures	M B Liu, J.Z. Chang
82	ICADD9-127	Dr.	Chen Guangqi	Kyushu Univ. Japan	Extension of Distinct Element Method and Its Application in Fracture Analysis of Quasi-brittle Materials	Y.L. HOU, G.Q. CHEN, C.H. ZHANG
83	ICADD9-128	Ms.	An Xin Mei	Nanyang Technological University	A Comparison between the NMM and the XFEM in Discontinuity Modelling	XM An, GW Ma
84	ICADD9-130	Prof.	Li Luxian	Xi'an Jiaotong University	Accuracy Comparison of Rectangular and Triangular Mathematical Elements in the Numerical Manifold Me	H.H. Zhang, Y.L. Chen, L.X. Li, X.M. An, G.W. Ma
85	ICADD9-131	Mr.	ALI AKBAR SAHEBI	SHAHID BAHONAR OF UNIVERSITY OF KERMAN, IRAN	Prediction Of Rock Mass Rating Using Fuzzy Logic With Special Attention To Discontinuities...	A.A. SAHEBI and S. MOJEDDI FAR and H. JALALI FAR
86	ICADD9-132	Mr.	Asadizadeh	Shahid Bahonar University of kerman	numerical modelling of mechanical behaviour of jointed rock mass	Mostafa Asadizadeh-Reza Rahmannejad
87	ICADD9-133	Prof	Zhang Xingui	Guangxi University	An Analysis of Model Tests on Rock Cavern Damage Induced by Underground Explosion	Zhang Xingui, Ma Guowei, Wu Wei, Yan Lie, Li Mangyuan, Cheng Qingsheng
88	ICADD9-134	Mr.	Ali Kargar	Mining Engineering Department Of Bahonar University Of Kerman	A Sensitive Analysis on Mohr-Coulomb and Hoek-Brown Parameters Effectd in Ground Response Curve	ali reza kargar- Reza Rahmannejad
89	ICADD9-135	Prof	Zhao Jian	Ecole Polytechnique Federale de Lausanne (EPFL)	Microscopic Numerical Modelling of the Dynamic Strength of Brittle Rock	G-F. ZHAO and J. ZHAO*
90	ICADD9-136	Prof	Vladimir Dolezel	University of Pardubice, Czech Republic	Probabilistic Assessment of a Railway Steel Bridge	B. CULEK , V. DOLEZEL and P.P. PROCHAZKA

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92	ICADD9-138	Prof	Yoshimi Sonoda	Kyushu University	A fundamental study on the SPH method application for impact response of RC structural members	Jin FUKAZAWA, Yoshimi SONOAD
93	ICADD9-139	Dr.	Gu Yuantong	School of Engineering Systems, Queensland University of Technology	An Advanced Implicit Meshless Method For Time Fractional Diffusion Equation	Y. T. GU, P. ZHUANG, F. LIU P.K.D.V. YARLAGADDA1