

HP Innovate 2009

Short-Listed Abstracts

Submission Code	Theme	Project Title	Institute	Participant(s)	Principal Faculty Mentor
HPIO9003	Network security	IP address manipulator	Sir M. Visvesvaraya Institute of Technology	Sudhakar Kambali, Rohith V., Vinit and Shashwat	Savitha Unni, Senior Lecturer, Electronics and Communication
HPIO9008	Embedded technology	-	Shri G. S. Institute of Technology and Science	Atul Shrimal, Rahil Jain and Swati Jhavar	Surendra Gupta, Senior Lecturer, Computer Engineering
HPIO9009	Image processing	Machine vision system modeling using stereopsis and independent component analysis	Army Institute of Technology	Amitabh Mishra, Angadbir Singh Salaria and Chandrashekhar Tripathi	Sangeeta Jadav, Assistant Professor, Electronics and Telecommunication
HPIO9012	Use of IT in providing solutions - energy conservation	OLED based newspaper	Institute of Technology, Nirma University	Rushi Mehta, Karan Kurani, Jishnu Dave and Takshak Desai	Zunnun Narmawala, Assistant Professor, Information Technology
HPIO9013	Image processing	A fuzzy logic based approach to de-weather fog-degraded images	Indian Institute of Technology - Kharagpur	Nachiket Desai, Aritra Chatterjee, Shaunak Mishra and Dhaval Chudasama	Sudhir Kumar Barai, Associate Professor, Civil Engineering
HPIO9016	Embedded technology	Vehicle accident prevention using eye wink	MEPCO SCHLENK Engineering College	P. Nafees Khan, M. Ramesh Kannan, G. Karthik and D. Kannan	T. Revathi, Professor and Head, Information Technology
HPIO9025	Use of IT in providing solutions - healthcare	-	M. V. J. College of Engineering	Kumaraswamy Holla V., Sudarsona Paul and Christina Gracek	M. Nagaraja, Assistant Professor and Head, Medical Electronics
HPIO9026	Use of IT in providing solutions - healthcare	Development of friendly doctor/patient medical card	S. R. M. University	S. Sakthi Dasan and Shashank Yadan	Kayalvighi Jayavel, Lecturer, Information Technology
HPIO9034	Web enabled services	RFID middleware in retail stores: for personalized consumer services and efficient retail management	C. V. R. College of Engineering	K. Chakra Teja, B. Vasu Kanna and R. Vinod Reddy	B. Vikranth, Associate Professor, Computer Science
HPIO9037	Digital printing	High resolution outputs through CMYK printers	Amity University	Nikhil Sachdeva, Nancy Aggarwal, Palak Narain and Kunal Piplani	Ajay Rana, Director, Computer Science and Engineering
HPIO9038	Nanotechnology	Nanotechnology to improve Li-Ion battery performance	Future Institute of Engineering and Management	Shubharthee Sarkar, Subhojit Ghosh, Adrita Chatterjee and Sumit Paul	Prasenjit Basu, Lecturer, Computer Science and Engineering

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HPIO9044	Image processing	A lossless JPEG format	National Institute of Technology - Patna	Varun Kumar J, Ankur Shree and Rohit Kumar	Bijay Kumar Sharma, Assistant Professor and Head, Electronics and Communication
HPIO9049	Multi-source applications	A metalink based peer to peer overlay network similar to the BitTorrent client/server architecture	Delhi College of Engineering, Delhi University	Siddhant Goel, Sunil Kumar Ghai, Akhil Jindal and Nikhil Jindal	Rajni Jindal, Assistant Professor, Computer Engineering
HPIO9051	Multi-source applications	Electrostatic (ionic) attraction based standoff long-range RDX sensor equipped traffic signal post	G. Narayanamma Institute of Technology and Science (For Women)	P. Sruthi Reddy, B. Rashmi, T. L. Vasundhara and A. Sravanthi	A. Ramesh Kumar, Associate Professor, Electronics and Telematics
HPIO9054	Use of IT in providing solutions - transportation	Intuitive patron	Meenakshi Sundararajan Engineering College	Buveneswari. S, Gayathri. K. S., Somasundaram. P and Swaminathan. R	Anitha Manikandan, Lecturer, Computer Science and Engineering
HPIO9057	Use of IT in providing solutions - energy conservation	Traffic management for power optimization in workstations	Galgotias College of Engineering and Technology	Rajarshi Pratap Singh, Pankaj Verma, Tushar Saxena and Vibhuti Mittal	Parmanand Astya, Professor and Head, Computer Science and Engineering
HPIO9058	Use of IT in providing solutions - healthcare	An intelligent coaching system using XML assessment and RFID safety mechanisms for alzheimer's disease	Dr. Mahalingam College of Engineering and Technology	K. Ganeshamoorthy, S. Tharani, D. Sasikala and A. Vasavi	K. Vijayalakshmi, Senior Lecturer, Computer Science and Engineering
HPIO9062	Use of IT in providing solutions - healthcare	-	National Institute of Technology - Hamirpur	Dheeraj Gupta and Shobhit Mahajan	Naveen Chauhan, Lecturer, Computer Science and Engineering
HPIO9065	Use of IT in providing solutions - healthcare	A delay tolerant network based rural healthcare system	Delhi College of Engineering, Delhi University	Kartik Rustagi	Malaya Dutta Borah, Lecturer, Computer Engineering
HPIO9066	Use of IT in providing solutions - clean water	-	N. M. A. M. Institute of Technology, N. I. T. T. E.	Sushrut Tendulkar and Ratan D. K.	Ashok Kumar A., Assistant Professor, Information Science and Engineering
HPIO9070	Multi-source applications	Z-Tech in smart applications	St. Peter's Engineering College	V. J. Sairam	Balamurugan. K, Head, Information Technology
HPIO9074	Cryptography	Graphing the text for cryptology	Vellore Institute of Technology	Ajay Singh, Ankush Kumar Jain, Arindam Chakraborty and Asad Ali	N. Chandramowliswaran, Associate Professor, Mathematics

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HPIO9075	Use of IT in providing solutions - transportation	-	Sreenidhi Institute of Science and Technology	P. N. Apuroop	A. Susmitha, Assistant Professor, Electronics and Communication
HPIO9077	Embedded technology	Optimized security detection systemizer for liquid explosives	Meenakshi Sundararajan Engineering College	Deepika. S and Lalitha. R	N. Mathangi, Lecturer, Information Technology
HPIO9078	Web enabled services	Web based data mining	International Institute of Information Technology - Kolkata	Arindam Masanta and Samrat Guha	Pratik Saha, Technical Head, Computer Science and Engineering
HPIO9085	Use of IT in providing solutions - healthcare	Continuous health monitoring of defense personnel	Easwari Engineering College	Ramyar. R and Tinu Saratttus	K. Kathiravan, Professor and head, Information Technology
HPIO9088	Embedded technology	iPen - Pressure based mouse	Pune Institute of Computer Technology	Mahesh Sharma	Rajesh Ingle, Head, Computer Engineering
HPIO9090	Use of IT in providing solutions - interactivity in education	Citius Learning Management System (CLMS)	J. S. S. Academy of Technical Education	Ashish Agarwal, Ateet Gupta and Madhur Verma	Shilpi Sen Gupta, Lecturer, Computer Science and Engineering
HPIO9091	Cryptography	A new approach to (K,N) threshold secret sharing scheme	Institute of Engineering and Management	Amrik Chatterjee, Chitradeep Dutta Roy and Neel Choudhury	Biswajoy Chatterjee, Assistant Professor, Computer Science and Engineering
HPIO9094	Multi-source applications	RIFMAS: River flow management system using wireless sensing agents	M. M. Engineering College	Bhanu Kaushik	R. B. Patel, Head, Computer Science and Engineering
HPIO9102	Cryptography	A novel approach towards estimating the difficulty in factorization of large integers with special emphasis on RSA encryption algorithm	Bengal Engineering and Science University	Sounak Gupta, Sandeep Biswas and Rahul Karmaker	Prasun Ghosal, Lecturer, Information Technology
HPIO9103	Server virtualization	Performance tune up of servers using virtualization especially for legacy systems	SASTRA University	Aarthi Raghavan, Anusha. T. R., Aparna. G and Iswarya. N	R. Seethalakshmi, Professor, Computer Science and Engineering
HPIO9109	Intelligent Document Processing	-	Amrita School of Engineering	B. Sriram and Prashanth Iyer. R	S. Ravishankar, Professor, Electronics and Communication

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HPIO9111	Web enabled services	Personalized information retrieval system with query optimizer, summary generator and aggregator using machine learning and data mining techniques	Thiagarajar College of Engineering	R. Anandhi Pandi and S. Devika	M. Indira Devi, Senior Grade Lecturer, Information Technology
HPIO9112	Use of IT in providing solutions - transportation	SMS-Oriented taxi/auto-rickshaw hiring and management system	Kalinga Institute of Industrial Technology, K. I. I. T. University	Sudhanshu Kumar, Shreyansh Kumar, Jitendriya Parida and Anshuman Nayak	Animesh Tripathy, Assistant Professor, Computer Science and Engineering
HPIO9117	Image processing	Security system with automatic threat detection	University College of Engineering (K. U.)	V. Chaithanya Kumar	T. Jaganmohan Raju, Assistant Professor, Electrical and Electronics Engineering
HPIO9121	Cryptography	E-Distribution mechanism of digital rights	Malviya National Institute of Technology	Devang Nayak, Mudassar Nawaz Khan, S. Sarath Kumar and Saumya Sharma	Dr. Vijay Lakshmi, Reader, Computer Science and Engineering
HPIO9127	Multimedia and gaming	Astute song hunter: Playback file retrieval from media servers based on humming patterns	B. M. S. College of Engineering	Madhusudan C. S., Puneeth Bhat A. H. and Santosh G. Vattam	R. Ashok Kumar, Assistant Professor, Information Science
HPIO9128	Use of IT in providing solutions - healthcare	-	Swami Keshvanand Institute of Technology, Management and Gramothan	Tarun Arora, Sharad Saxena, Sandeep Tourani and Shikha Shrivastava	Smita Pallavi, Senior Lecturer, Computer Science and Engineering
HPIO9133	Cryptography	Implementation of steganography in text, image and audio files	Shri Shankaracharya College of Engineering and Technology	Rahul Rathore, Tushar Kumar Gupta, Vikas Kumar and Suman Kumar	Sreejit Panicker, Reader, Department of MCA
HPIO9138	Use of IT in providing solutions - healthcare	Smart stick	N. M. A. M. Institute of Technology, N. I. T. T. E.	Niha Noor Shaikh	Vinay. S, Senior Lecturer, Information Science
HPIO9142	Embedded technology	CePal - An infrared based remote control for cerebral palsy patients	Dhirubhai Ambani Institute of Information and Communication Technology	Hitesh Sabnani, Mohit Maheshwari and Prashant Garg	Prabhat Ranjan, Professor, Embedded Systems and Sensor Networks
HPIO9143	Image processing	Image search engine using both physical and semantic characteristics of images	Malviya National Institute of Technology	Abhisek Mishra, Ujjwal Akash, Mrinal Priyadarshi and Nagraj Purohit	Neeta Nain, Senior Lecturer, Computer Engineering
HPIO9145	Multimedia and gaming	Intelligent frame detection in computer games using data mining	National Institute of Technology Karnataka - Surathkal	Raghuram O. S.	Dr. Ananthanarayana V. S., Professor and Head, Information Technology

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HPIO9146	Embedded technology	Electronic Blind Guider (EBG)	Sona College of Technology	K. Vinoth Kumar	B. Gopi, Assistant Professor, Electronics and Communication
HPIO9147	Nanotechnology	NEMS (Nano Electro Mechanical System) based bomb detection in mobile phones	Coimbatore Institute of Technology	Pavithra S. V., Preethi. M, Ramya S. and Rashmi. M	K. Sakthivel, Lecturer, Physics
HPIO9157	Use of IT in providing solutions - interactivity in education	'Let us see C' - C Programming for the blind	Kalinga Institute of Industrial Technology, K. I. I. T. University	T. Sreevani, Anurag Sharma, Rajesh Patidar and Shobhit Khare	Animesh Tripathy, Assistant Professor, Computer Science and Engineering
HPIO9167	Embedded technology	Automated monitoring less security system	Sri Mittapalli College of Engineering	N. V. R. Kanth	R. V. Kishore Kumar, Assistant Professor, Information Technology
HPIO9168	Use of IT in providing solutions - energy conservation	Processor usage monitoring and management system	Jaypee Institute of Information Technology University	Varun Mittal, Kamal Kumar Patel, Vaibhav Chaudhary and Ankit Puri	Gagandeep Kaur, Senior Lecturer, Computer Science and Engineering
HPIO9171	Cryptography	-	SASTRA University	V. Vijay Kumar and G. Nanda Kishore	S. Saravanan, Lecturer, School of Computing
HPIO9172	Image processing	-	National Institute of Technology - Calicut	Ashish A.	Lijiya A., Lecturer, Computer Science and Engineering
HPIO9175	Use of IT in providing solutions - transportation	Automatic auto-navigator	Indian Institute of Technology - Madras	Ananda Narayanan B.	Giridhar K., Professor, Electrical Engineering
HPIO9176	Use of IT in providing solutions - healthcare	Hospbot	Birla Institute of Technology and Science - Pilani	Prashant Harge, Sachin Jain, Nikhil Nathani and Rohan Maheshwari	Rishikesh Vaidya, Lecturer, Physics
HPIO9178	Multimedia and gaming	CBMR - Content based multimedia retrieval	Institute of Technology, Nirma University	Rajvi Shah, Ritesh Lala and Pooja Gandhi	Nagendra P. Gajjar, Associate Professor, Electronics and Communication
HPIO9179	Multimedia and gaming	Advertisement firewall for digital videos based on temporal segmentation	Thapar University	Ashish Tanwer and Anil Bains	Parminder Singh Reel, Lecturer, Electronics and Communication
HPIO9180	Cryptography	Securing mobile networks using DNA based cryptography	Thapar University	Harneet Singh, Karan Chugh and Harsh Dhaka	Anil Kumar Verma, Lecturer, Computer Science and Engineering

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HPIO9181	Use of IT in providing solutions - transportation	Intelligent navigation system	St. Martin's Engineering College	Vinay Kumar K., Anurag V. and Rohith P.	G. Raghavendra Prasad, Assistant Professor, Computer Science and Engineering
HPIO9184	Use of IT in providing solutions - transportation	Fuzzy controlled traffic using nanotech	Siddaganga Institute of Technology	Prateek Sollapur, Virendra Kumar Verma and Sanjay B. K.	M. R. Shollapur, Director, PGDMS and RC
HPIO9186	Use of IT in providing solutions - transportation	Traffic information cum management system	National Institute of Technology - Jamshedpur	Sunny Kumar Singh, Vivek Kumar and Ranjit Prasad	A. K. Singh, Assistant Professor and Head, Electrical
HPIO9187	Use of IT in providing solutions - transportation	Merge-by-wire: Algorithms and system support	Indian Institute of Technology - Bombay	Prakhar Goyal	Krithi Ramamritham, Dean R&D and Professor, Computer Science and Engineering
HPIO9188	Image processing	Modularization of image for reduced FRR in hand vein pattern recognition	University Visvesvaraya College of Engineering	Rahul Prabhu H., Sagar D. S., Vishnu Prasad K. and Velaga Rajesh Chowdary	P. Deepa Shenoy, Professor, Computer Science and Engineering
HPIO9189	Use of IT in providing solutions - transportation	Railway reservation system	B. S. Abdur Rahman Crescent Engineering College	Danish Naseem, A. R. Mohamed Yousuff, K. Abbas and J. Hussain-Farid Ahamad	L. Shyamala, Lecturer, Information Technology
HPIO9191	Intelligent Document Processing	Automatic FAQ generator	Indian Institute of Technology - Madras	Vemalkumar Jeyakumar, N. G. Srinivas and Abhinav Narain	Balaraman Ravindran, Assistant Professor, Computer Science and Engineering
HPIO9193	Use of IT in providing solutions - interactivity in education	The design and development of an 'adaptive e-learning' system	Sri Venkateswara College of Engineering	Jothimanikandan S., Mathumita Srinivasan and Palaniappan M.	Susan Elias, Professor, Computer Science and Engineering
HPIO9197	Use of IT in providing solutions - interactivity in education	STIFKI - Student teacher interaction forum for knowledge and innovation	Indian Institute of Technology - Roorkee	Rahul Gupta and Varun Choudhary	Subrata Ray, Professor, Metallurgy and Materials
HPIO9199	Use of IT in providing solutions - transportation	Guided vehicles	PGP College of Engineering and Technology	Sathish Kumar D., Raja Rajan S., Karthick S. and Mohanraj A.	R. Pratheesh, Lecturer, Electronics and Communication
HPIO9200	Web enabled services	Monitoring the habitat of extinction species by using IPv6 enabled wireless sensor networks	Jaypee Institute of Information Technology University	Vijit Gupta and Sahil Chaudhary	R. C. Jain, Head, Electronics and Communication

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HPIO9201	Embedded technology	Music player with physiological input for motivation in exercising	Birla Institute of Technology and Science - Pilani, Goa Campus	Angad Singh Gill, Sidhartha Agrawal and Pranav Kachhawa	A. Amalin Prince, Lecturer, Electrical and Electronics
HPIO9202	Web enabled services	Peer to peer communication for closed user groups	Indian Institute of Technology - Guwahati	Rohit Pande, Deepanshu Vasal and Indrajeet Singh	Abhijit Mitra, Associate Professor, Electronics and Communication
HPIO9203	Multimedia and gaming	Synaptics - 3D Interactive input system	Amrita School of Engineering	Harish S. C., Devaradhan M., Balaji D. and Vignesh M.	Meena Kousalya A., Lecturer, Information Technology