Dr. Shadan Khan Khattak

	Past/Relevant	Research & Development Engineer	
Personal Information	role:	Video Algorithms Research Team	
INFORMATION		Panasonic R&D Centre Singapore	
	Current	Assistant Professor	
	role:	Department of Computer Engineering	
		King Faisal University, Saudi Arabia	
	Voice:	+966-557627489	
	E-mail:	shadank@hotmail.com	
QUALIFICATION			
	PhD. Multimedia Communication, 2014.		
	Institute: De Montfort University, UK.Dissertation: Low Complexity Multiview Video Coding		
	MSc. Data Communication, 2009.		
	• Institu	te : The University of Sheffield, UK.	
	• Bsc. Com	nputer Systems Engineering, 2007.	
	• Institu	te: NWFP University of Engineering & Technology, Pakistan.	
Research	• 2D/3D via	deo compression standards (e.g. H.264/AVC, MVC, HEVC, VVC, VP9, AOM	
Interests	AV1 etc.)		
		plexity video compression algorithms. hesis and depth image based rendering techniques.	
	•	cealment techniques for video transmission.	
	-	f Experience in video communication.	
	• Scalable v	/ideo coding.	
Relevant		c Research & Development Centre, Singapore	
EXPERIENCE		& <i>Development Engineer</i> Sept. 2017 to March 2018 rch & development of video quality improvement algorithms	
		analysis and mapping	
		ng of team members on latest video technologies (e.g. AOM AV1)	
	• Parabola	Research, Southampton, UK.	
	Research	•	
		rch & development of fast video coding techniques ering technical reports	
TECHNICAL			
REPORTS & BLOGS		ak, Video Compression with Capability Beyond HEVC, Technical Report, R&D Centre Singapore, PRDCSG-18-010, Mar. 2018,	
		k, Point Cloud Compression, Technical Report, Panasonic R&D Centre Sin- RDCSG-17-039, Dec. 2017,	
		ak, Overview of the AOM AV1 Video Codec, Technical Report, Panasonic atre Singapore, PRDCSG-17-036, Nov. 2017,	
	• S. Khatta UK, 2013	k, HEVC Over Twitter, Technical Blog, Parabola Research & Development,	

TRAININGS ATTENDED	 Panasonic Basic Business Philosophy (Panasonic R&D Centre, Singapore). Clean Business Compliance (Panasonic R&D Centre, Singapore). Essential Management Skills (Panasonic R&D Centre, Singapore). Erasmus Intensive Programme on "Multimedia and the Future Internet: Moving Socia and Mobile" (Cumberland Lodge, The Great Park, Windsor, UK, August 5 - 16, 2013). 				
Selected Journal Publications	 S. Khan, N. Muhammad, S. Farwa, T. Saba, S. Khattak, and Z. Mahmood, Early CU Depth Decision and Reference Picture Selection for Low Complexity MV-HEVC, Symmetry, vol, 11, no. 4, pp. 454 – 462, 2019. 				
	• S. Khattak, T. Maugey, R. Hamzaoui, S. Ahmad, and P. Frossard, Temporal and Interview consistent error concealment for Multiview plus Depth Video, IEEE Transactions on Circuits and Systems for Video Technology, vol. 26, no. 5, pp. 829-840, May 2016.				
	• S. Khattak, R. Hamzaoui, T. Maugey, S. Ahmad, and P. Frossard Decision Technique for View Synthesis Prediction-enhanced Mu IEEE Signal Processing Letters, vol. 20, no. 10, pp. 1126-1129,	ultiview Video Coding,			
	• S. Khattak, R. Hamzaoui, S. Ahmad, and P. Frossard, Fast En Multiview Video Coding, Signal Processing: Image Communica 580, July 2013.				
Selected Conference Publications	• S. Nawaz and S. Khattak, Early decision of CU splitting, using base view information, for low complexity MV-HEVC. International Multitopic Conference (INMIC 2017), (accepted).				
	• S. Khattak, Framework for Low Complexity Multiview Video Coding. PGNet'2013, Postgraduate Symposium on the Convergence of Telecommunications, Networking, and Broadcasting, Liverpool, UK, June 2013.				
	• S. Khattak, R. Hamzaoui, S. Ahmad, and P. Frossard. Low Video Coding. PCS'2012, Picture Coding Symposium, Krakow,	· ·			
PROFESSIONAL ACTIVITIES	 Reviewer for IEEE Transactions on Circuits and Systems for Video Technology. Reviewer for IEEE Transactions on Image Processing. Reviewer for Signal Processing - Image Communication. Reviewer for Journal of Visual Communication and Image Representation. Reviewer for Signal, Image and Video Processing. 				
Awards & Memberships	• Best Student Group Award Erasmus Intensive Program on Multimedia and the Future Interr Mobile Windsor, UK.	net: Moving Social and Aug. 5–16, 2013			
	• Laxton Bequest Travel Award De Montfort University, UK.	2012			
	• PhD Studentship De Montfort University, UK.	2010–2013			
	MSc Scholarship				
	COMSATS Institute of Information Technology, Pakistan Member 	2008–2009			
	<i>Institute for Electrical and Electronics Engineers (IEEE).</i> Membership no.: 92524277				
	Registered Engineer				
	Pakistan Engineering Council (PEC).				
	Registration No. COMP4812HEC Approved PhD Supervisor				
	• Higher Education Commission (HEC), Pakistan.				

Other Experience	 Department of Computer Engineering, King Faisal University, Ahsa, Saudi Arabia Assistant Professor Courses Taught: Electronics Selected Topics in Computer Science 				
	 Department of Electrical Engineering, COMSATS IIT, Abbottabad, Pakistan Assistant Professor and Course Head in Signals & Systems Nov. 2014 to Oct. 2018 Courses Taught: Principles of Communication Systems (BSc Electrical Engineering) Multimedia Data Compression (MS Electrical Engineering) Digital Signal Processing (BSc Electrical Engineering) Digital Logic Design (BSc Computer Engineering) Electric Circuit Analysis 1&2 (BSc Computer Engineering) Applied Physics for Engineers (BSc Electronic Engineering) 				
	• School of Engineering and Sustainable Development, De Montfort University, Le-				
	 icester, UK. <i>Technical Demonstrator</i> Mar. 2011 to Feb. 2014 <i>Courses:</i> Multimedia Communication (MSc Communication Engineering) Digital Image Processing (MSc Communication Engineering) Digital Signal Processing (MSc Communication Engineering) Signal Processing (BSc Electrical Engineering) 				
Administrative Experience	 Course Head, Signals & Systems, CIIT. Course Head, Digital Signal Processing, CIIT. Lab Head, Digital Signal Processing, CIIT. Member, Outcome based Education (OBE) implementation committee, CIIT. Member, Best IT Innovation Award (BITA) projects evaluation committee, CIIT. 				
RESEARCH SUPERVISION	 PhD Supervision Shahid Nawaz, 1st supervisor, on going. Asif Khan, supervisory committee member, on going. Yasir Ali, supervisory committee member, on going. Imran Shehzad, supervisory committee member, on going. MSc Supervision Muhammad Shahzad, 1st supervisor, successfully completed - Sept. 2016. Waseem Jadoon, 1st supervisor, on going. Fahad Masood, supervisory committee member, successfully completed - Sept. 2015. Sara Ali, supervisory committee member, successfully completed - Sept. 2016. Aqib Javed, supervisory committee member, successfully completed - Sept. 2016. 				
REFERENCES Available to Contact	 Dr. Raouf Hamzaoui (e-mail: rhamzaoui@dmu.ac.uk; phone: +44-116-207-8159) Professor, School of Engineering and Sustainable Development, De Montfort University. ◊ The Gateway Building 6.55, The Gateway, Leicester LE1 9BH, UK. 				
	 Dr. Shakeel Ahmad (e-mail: shakeel.ahmad@solent.ac.uk; phone: +44-238-201-6095) Senior Lecturer, School of Media Arts, and Technology, Southampton Solent University. RM410, East Park Terrace, Southampton SO14 0YN, UK. 				
	 Dr. Imran Taj (e-mail: imran.taj@gov.bc.ca; Senior Team Lead, Information Systems Branch, Ministry of Attorney General Provincial Government of British Columbia ◊ Victoria, British Columbia, Canada. 				