


Curriculum Vitae

Personal Information	Name	Chu Hongyan	Gender	Female	
	Academic Title	Doctor			
	College	Beijing University of Technology			
	Discipline	Mechanical engineering			
	Email	chuhongyan@bjut.edu.cn			
	Mail Add.	100 Ping Le Yuan, Chaoyang District, Beijing, P.R. China, 1000124			
Educational Background	<p>1999-09 to 2003-07, Beijing university of technology, mechanical design and theory, doctor</p> <p>1994-09 to 1997-04, Jilin university of technology, metal pressure processing, master</p> <p>1990-09 to 1994-07, Jilin university of technology, forging technology and equipment, bachelor</p>				
Working Experience	<p>2005-08 to 2006-01, State University of New York at Buffalo, visiting scholar</p> <p>2004-12 to now, College of Mechanical Engineering and Applied Electronics Technology, associate professor</p> <p>1999-12 to 2004-12, College of Mechanical Engineering and Applied Electronics Technology, lecturer</p> <p>1997-04 to 1999-12, College of Mechanical Engineering and Applied Electronics Technology, teaching assistant</p>				
Research Interests	<ol style="list-style-type: none"> 1. Dynamic characteristics of roller system structure 2. Intelligent manufacturing research 3. Process simulation and optimization research of hot machining process 				
Major Publications*	<p>[1] Hongyan Chu, Kailin Zhao, Qiang Cheng, Rui Li, Congbin Yang. Control chart patterns recognition based on optimized deep belief neural network and data information enhancement. IEEE ACCESS, 2020,8: 203685-203699</p> <p>[2] Hongyan Chu, Qi Chen, Rui Wang, Yingjie Hong. Analysis of rolling on steel and rubber-covered rollers using viscoelasticity. Advances in Mechanical Engineering, 2019, 11(11):1-14</p> <p>[3] Hongyan Chu, Xuecong Lin, Ligang Cai. Analysis of temperature characteristics of ink fluid based on power law model in microchannel. Advances in Mechanical Engineering, 2019, 11(3), 1-15</p> <p>[4] Chu Hongyan, Lin Xuecong, Zhao Pile, Cai Ligang. Influence of feature size of micro-scale channel on ink flow characteristics. High Technology Letters, 2018, 24(3): 296-302</p> <p>[5] Chu Hongyan, Lin Xuecong, Zhao Pile, Cai Ligang. Influence of viscosity on ink flow characteristics in microscale. Journal of Beijing University of Technology, 2018.44(12): 1478-1485</p> <p>[6] Chu Hongyan, Chen Libo, An Ran, Cai Ligang. Analysis of ink temperature of ink roller extrusion contact areas based on thermal elastohydrodynamic lubrication. China Mechanical Engineering, 2018.29(23): 2773-2778</p> <p>[7] Chu Hongyan, Xu Kangjian, Huang Wei, Cai Ligang. Temperature field analysis of two rotating and squeezing steel-rubber rollers. High Technology Letters, 2017,23(4):410-417</p> <p>[8] Chu Hongyan, Xu Kangjian, Huang Wei, Cai Ligang. Heat-generating of rubber and its influence on mechanical properties. Journal of Beijing University of Technology, 2017,43(11):1635-1640</p> <p>[9] Chu Hongyan, Lin Xuecong, Zhao Pile, Cai Ligang. Heat generation based on viscous dissipation of high viscosity fluid ink in microchannels. Journal of Beijing University of Technology, 2017,43 (10): 1464-1471</p>				

	<p>[10] Chu Hongyan, Zhao Pile, Cai Ligang. Influence of slip velocity on ink flow characteristics in microscale. Journal of Beijing University of Technology, 2017,43 (8): 1155~1160</p> <p>[11] Chu Hongyan, Xu Kangjian*, Zhang Xiaolin, Cai Ligang. Forming mechanism of ink layer on the printing plate in inking process and influencing factors of its thickness. High Technology Letters, 2016, 22(3):297-304</p> <p>[12] Chu Hongyan, Shen Ruiqing, Cai Ligang. Dynamic simulation analysis of two ink rollers movement in the ink supply system of an offset printing machine. Journal of Beijing University of Technology, 2016,42 (7): 975~981</p> <p>[13] Chu Hongyan, Wang Yueqian. Prediction for ink transferring ratio based on neural network. Journal of Beijing University of Technology, 2016, 42 (3): 354~360</p>
Research Projects*	<p>1. National Science and Technology Major Project. Machine Design Manual Revision and Achievement Integration, 2019/01-2020/12, under research, Person in charge</p> <p>2. Beijing Science and Technology Project, Construction of Innovation Service Platform of Plastic Mould Manufacturing, 2020/03-2022/02, under research, Main Participator</p> <p>3. National Natural Science Foundation of China, Dynamics characteristics of steel - rubber ink roller contacting and ink flow in its micro-scale channel considering temperature, 2017/01-2020/12, under research, Person in charge</p> <p>4. Beijing Municipal Education Commission Science and Technology Plan General Project, Analysis of rubber structure thermo-solid coupling research based on rubber constitutive model, 2017/01-2019/12, completed, Person in charge</p> <p>5. Pre-research Project, Research on key technologies for intelligent manufacturing demonstration line, 2017/10~2020/12, under research, Participator</p> <p>6. Entrusted by the Enterprise / Guizhou Anda, The overall planning of the digital factory of the aviation forging industrial park and the first-phase system integration plan, 2018/04~2018/12, completed, Participator</p> <p>7. Entrusted by the Enterprise / Beijing Institute of Mechanical and Electrical Engineering, Forging production line fault diagnosis expert system development, 2016/08~2017/07, completed, Person in charge</p>
Professional Membership	None
Potential Research Projects**	networked collaborative manufacturing based on cloud platform

* Please list achievements of recent 5 years

** This CV is intended to match Chinese and Polish Scientists within SPUC member universities, and Potential Research Projects is intended to apply for Sino-Polish or EU scientific cooperation projects.