



# Engineering Research at the University of South Alabama Systems Engineering



**Dr. Robert Cloutier** UFORXWLHU#VRXWKDODEDPD HGX

z 0RGHO EDVHG V\ VWHPV HQJLQHHULQJ  
z 0RGHO EDVHG HQJLQHHULQJ  
z 'LJLWDO 7KUHDG 'LJLWDO 7ZLQ  
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z 0HWDYHUVH IRU V\ VWHPV HQJLQHHULQJ  
z \*UDSKLFDO FRQFHSW RI RSHUDWLRQV &21236

**Dr. Kari Lippert** NOLSSHUW#VRXWKDODEDPD HGX

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z 6\ VWHPV (QJLQHHULQJ

**Dr. Bhushan Lohar** EORKDU#VRXWKDODEDPD HGX

z 0RGHO EDVHG V\ VWHPV HQJLQHHULQJ  
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z 0LVVLRQ HQJLQHHULQJ  
z 3URGXFW OLQHDU HQJLQHHULQJ PRGHOLQJ  
z &RQFHSW RI RSHUDWLRQDO FRQFHSWV  
z 5HTXLUHPPHQWV HQJLQHHULQJ DQG PDQDJHPPHQW  
z 5HTXLUHPPHQWV LQWHJUDWLRQ YHULILFDWLRQ YDOLGDWLRQ  
z \$UWLILFLDODU LQWHJUDWLRQ MZLQV

**Dr. John Usher** XVKHU#VRXWKDODEDPD HGX

z 6\ VWHPV VLPXODWLRQ PRGHOLQJ DQG DQDO\VLV  
z 'HVLJQ DQG RYHUVLWJRGXFWLRQ V\ VWHPV  
z \$SSOLFDWLRQ RI DUWLILFLDO LQWHJUDWLRQ OLJHGFH LQ PDQXIDDO

# Engineering Research at the University of South Alabama

## Civil, Coastal, and Environmental Engineering



Dr. John Cleary FOH DU \# VRXWKDODEDPD HGX

z 3RVW GLVDVWHU VWUXE QYHVDLH DWRD WLRQ DQG  
z )RUHQDF O\VLV LQYHVWLJDDWLRQ DQG HYDOXDWLRQ  
z /DUJH DQG VPDOO VFDOH VWUXFWXUDO WHVWLQJ LQFOXGL  
z &RQVWUXFWLQJ HYDOXDWLRQ DQG LQYHVWLJDDWLRQ  
z &RQFUHWH WHVWLQJ DQG HYDOXDWLRQ

Dr. Trung Do WUXQJGR#VRXWKDODEDPD HGX

z +XUULFDQH ZLQG ZDYH DQG VXUJH  
z &RDVWDO DQG QHDU FRDVW VWUXFWXUHV  
z &RPPXQLW\ UHVLOLHQFH DQG UHFR zFWXUHV VP



# Engineering Research at the University of South Alabama

## Electrical and Computer Engineering



Dr. Yousef El-Sharkh \HO VKDUN#VRXWKDODEDPD HGX

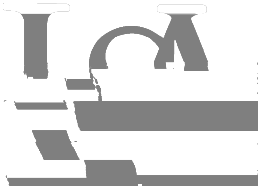
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z 0XOWL DJHQW V\WHPV DQG GLWULEXWLYH FRQWURO  
z (QHUJ\ VWRUDJH V\WHPV  
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z \$UWLILFLDO LQWHOOLJHQFRQWUWFKQOTXHQWLRQSSRZHU V\W

Dr. Na Gong QDJRQJ#VRXWKDODEDPD HGX

z \$UWLILFLDO \$QWMDOKQRQRH\  
z ,QWHOOLJHQWFKRQWUWFKQOTXHQWLRQSSRZHU V\WHPV  
z 9LHZHU DZDUHVPRIERQH  
z Ä%P2z



William B. Burnsed Jr. Department of Mechanical, Aerospace and Biomedical Engineering



Dr. Lanier S. Cauley OFDXOH\#VRXWKDODEDPD HGX
z 7KHUPRG\QDPLFV

Dr. Melike Dizbay-Onat PRQDW#VRXWKDODEDPD HGX
z 1DWXUDO ILDFWGYHDMMBGF DUERQV
z 3K\VLFDQ DQG FKHPLFDQ DFWLYDWLRQ PHWKRGV
z 3K\VLFDQ DGVRUSWLRQ
z 3RURXV PDWHULDOV
z %LR EDVHG FRPSRVLWHV
z (QJLQHHULQJ HGXFDWLRQ
z 67(0 RXWUHDFK

Dr. Kuang-Ting Hsiao NWKVLDR#VRXWKDODEDPD HGX
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z &DUERQ ILEHU UHLQIRUFHG SRO\PHU &)53 FRPSRVLWHV
z &DUERQ QDQRKUEHDFG &)53 =7 &)53 PXOWL VFDQHG FRPSRVLWHV
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z 0LFUR QDQR IOXLGV DQG VXVSHQVLRQV LQ SRURXV PHGLD
z )XQFWLRQDQGHG PDWHULDOV
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z 7UDQVSRUW SKHQRPHQD LQ SRURXV PHGLD
z (QHUJ\ VWRUDJH DQG KDUYHVWLQJ

Dr. Julia Kar MNDU#VRXWKDODEDPD HGX
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z &OLQLFDO KHDUW IDLOXUH GHWHFWLRQ
z 0DJQHWLF UHVRQDQFH QDWXUWLF SKDVH 63\$00 SHUFXVLRQ
z GHYHORSPHQW

Dr. Carlos Montalvo FPRQWDOYR#VRXWKDODEDPD HGX
z \QDPLF VLPXODWLRQ FRXSOHGRZIEWKDPSHODHGFHDFWLPDWLRQ
z ([SHULPHQWDO IOLJKW VSHUWRQDQGHG HFRSRXUWRQRPRRXV DHU
z )OLJKW G\QDPLFV FRQWURODQGHGSDWLRQKODIVPFXOWRQERG\
z V\VVHPV
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z 7HWKHUHG DHURVSDFXGHG\HDFWQGFSDUDIRLOV

Dr. David A. Nelson GDQHOVRQ#VRXWKDODEDPD HGX
z +XPDQ WKHUPRUHJXODWLRQ DQG WKHUPRUHJXODWLRQ PRG
z %LRORJLFDO HIIHFWV RI QRQ LRQL]LQJ UDGLDWLRQ
z 0HGLFDO GHYLFH GHVLJQ
z +HDW WUDQVIHU HQKDQFHPHQW

Dr. Anh-Vu Phan YSKDQ#VRXWKDODEDPD HGX
z 6\PPHWULF \*DOHUNLQ ERXQGDDSSOLPHQWRQDWKRQDZDFW\U
z ZDYH GLIUDFWLRQ DQG PRYLQJ ERXQGDU\ SUREOHPV
z &RPSXWDWLRQDO ELRPHFKDQLFV

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