



# Engineering Research at the University of South Alabama Systems Engineering



**Dr. Robert Cloutier** UFORXWLHU#VRXWKDODEDPD HGX  
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**Dr. Kari Lippert** NOLSSHUW#VRXWKDODEDPD HGX  
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z 6\ VWHPV (QJLQHHULQJ

**Dr. Bhushan Lohar** EORKDU#VRXWKDODEDPD HGX  
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z 0LVVLRQ HQJLQHHULQJ  
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z \$UWLILFLDODUHQJLQHHULQJ

**Dr. John Usher** XVKHU#VRXWKDODEDPD HGX  
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z 'HVLJQ DQG RYHURJXFWLRQ V\ VWHPV  
z \$SSOLFDWLRQ RI DUWLILFLDO LQWHJUDWLRQ

# 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 LQYHVWLJDWLRQ DQG HYDOXDWLRQ  
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z &RQFUHWH WHVWLRLRQ 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



Electrical and Computer Engineering



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

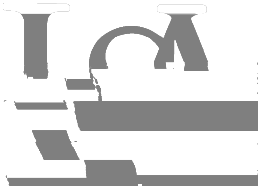
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z (QHUJ\ VWRUDJH V\ VWHPV
z 3RZHU V\ VWHP SODQQLRZHDQTXG B B QWURDQG SRZHU HOHFWRU
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Dr. Na Gong QDJRQJ#VRXWKDODEDPD HGX

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z ,QWHOOLJHQWFB B B VWLQDEFLHJG XLWV DQG V\ VWHPV
z 9LHZHU DZDUH VPRH R H
z Ä%P2 z



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 ILDFWGYHDMIBGF 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
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z )XQFWLRQDQDG 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 GHYHORSPHQW

Dr. Carlos Montalvo FPRQWDOYR#VRXWKDODEDPD HGX
z \QDPLF VLPXODWLRQ FRXSODGRZIEWKDPSHODHGFHDFWLPDWLRQ
z ([SHULPHQWDO IOLJKW VSHUWRQDQFH LPSURXWRQRRRXV DHU
z )OLJKW G\QDPLFV FRQWURODQJSDWFKWFKODVFRXOWRQERG\
z V\VVHPV
z 5HFRQILJXUDEOHIFRQWURODQJYHKLFOHV
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z 7HWKHUHG DHURVSDFXGHQVDOGHVDOGFSDUDIRLOV

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 ERXQGDDSHOHFWLRQDQJWKRGUDIFW\U
z ZDYH GLIUDFWLRQ DQG PRYLQJ ERXQGDU\ SUREOHPV
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