aQmKv EmM/m

SQbBiB@2MMBQ`1M;BM22`-_2bBHB2Mi*QMi`QHJ2i?Q/bh2K S+B}+LQ`i?r2biLiBQMHG#Q`iQ`vUSLLGV //`2bbNyk"ii2HH2"Hp/X-SXPX"QtNNN-JaC8@R8-_B+?HM/-qNNj8 1@JBHbQmKvXFmM/m!TSM?MQHMX2RQLpb8yNVjd8k9jR

"`B27 S`Q}H2

1/m + iBQM

1KTHQvK2Mi

- kyRe@ S +B}+ LQ`i?r2bi L iBQM H G #Q` iQ`v- la a2MBQ` 1M;BM22`

 - Ça2`pBM; b bm#@i?`mbi H2 / rBi?BM i?2 SLLG@G._. _.k* BMBiB iBp
 - Ç a2`p2/ b SA- *Q@SA M/h bF G2 / QM b2p2` H T bi T`QD2+ib 7mM/2/
 T`Q;` K- M/p `BQmb .P1 Q{+2b M/T`Q;` Kb-BM+Hm/BM; P{+2 Q7
 M/_2M2r #H2 1M2`;v U11_1V-"mBH/BM; h2+?MQHQ;B2b P{+2 U"hPV
 JQ/2HBM; S`Q;` K-P1 :`B/JQ/2`MBx iBQM AMBiB iBp2-P1 JB+`Q;`B
 p M+2/_2b2 `+? S`QD2+ib ;2M+v @ 1M2`;v U _S @1VX
- kyRj@kyR&Qb H KQb L iBQM H G #Q`iQ`v-la SQbiQ/Q+_2b2 `+? bbQ+B i2
 - C .2p2HQT2/ +QKTmi iBQM HHv 2{+B2Mi-b+ H #H2 M//2+2Mi` HBx2/ #BHBiv Q7 M BMi2`+QMM2+i2//vM KB+ H bvbi2K mM/2`/Bbim`# M+2 b T `i Q7 G LG@G. . T`QD2+iX
- kyyN@kylRMjBp2`bBiv Q7 JB+?B; M- MM `#Q`-la :`/m i2 aim/2Mi_2b2 `+? bbBbi Mi

 - Ç .2p2HQT2/ KQ/2HBM;- M HvbBb M/ +QQ`/BM iBQM bi` i2;B2b 7Q`
 ?vbi2`2bBb@# b2/2H2+i`B+ H HQ /b BM +QMM2+iBQM iQ /2K M/`2b

2b2 `+? AMi2`2bib

- LQMHBM2 `avbi2Kb M HvbBb
- G `;2@a+ H2 L2irQ`Fb
- *QQ`/BM iBQM Q7 6H2tB#H2 GQ /b
- "mBH/BM;b@iQ@:`B/AMi2;` iBQM
- 2bBHB2M+2 Q7 h` MbTQ`i iBQM L2irQ`Fb

_2b2 `+?:` Mib Ua2H2+i2/V

kykR@kyak2;H7@ r `2 GQ+ H miQMQKQmb M/a2KB@*QQT2` iBp2*QMi`QH7 _QH2Co-PI. "m/;2i_2bTQMbB\$#2BCHDBDivaTQMbPQNNL-LDRD

*Q@H2 /BM; i?Bb T`QD2+i r?B+? BKb iQ /2p2HQT M/ /2KQMbi` i2
`Bi?Kb i? i 2M #H2 i?2 ;2Mib BM H `;2 +v#2`@T?vbB+ H M2irQ`F i
M/ BM +QHH #Q` iBp2 ? `KQMv iQ 2M7Q`+2 bbm`2/ `2bBHB2M+2
h?2 2tT2+i2/ Qmi+QK2 Q7 i?Bb 2zQ`i Bb bmBi2 Q7 T`QiQivT2-QT
`Bi?Kb 7Q` b 72iv@ r `2 HQ+ H miQMQKQmb M/ b2KB@+QQT2` iE
+v#2`@T?vbB+ H M2irQ`Fb-bm+? b M2irQ`F2/ KB+`Q;`B/b M/ bK`

kykR@kykxjLjS, o `B iBQM H _2+m``2MiL2m` H L2irQ`F@# b2/L2i@HQ /S`2 _QH2PI. "m/;2i _2bTQMbB\$PBCHDBDivaTQMbDQOE SETO

a2`pBM; b i?2 SA 7Q` i?Bb T`QD2+i r?B+? BKb iQ mb2 /p M+2/ `K +?BM2 H2 `MBM; i2+?MB[m2b iQ +`2 i2 M QT2M@bQm`+2 iQQH i 2H2+i`B+ HQ / BM `2 b rBi? H `;2 KQmMib Q7 #2?BM/@i?2@K2i2` i?2 QT2` iBQM Q7 i?2 2H2+i`B+ M2irQ`FX Pmi+QK2b 7`QK i?Bb T`QbB;MB}+ Mi 2+QMQKB+ #2M2}ib- BM //BiBQM iQ TH vBM; +`BiB+ amMa?Qi kyjy;Q H Q7 8yW `2/m+iBQM BM H2p2HBx2/+Qbi Q7 UbQH

kykR@kykG;1_h, PMHBM2 PTiBKBx iBQM@" b2/ / TiBp2 G2 `MBM;@1M #H2/ _QH2PI. "m/;2i _2bTQMbB\$#BOHDBOivaTQMbPQNNL-LDRD

a2`pBM; bi?2 SA 7Q`i?Bb T`QD2+ir?B+? BKbiQ/2bB;M QMHBM2 kQ7 2tBbiBM; QTiBK H +QMi`QH bQHmiBQMb BM `2bTQMb2 iQ +v#2`bbm`2 U[m MiB} #HvV bm{+B2Mi K `;BMb Q7 `2bBHB2M+2X 1tT2+i/2bB;M Q7 / TiBp2 G2 `MBM;@1M #H2/_2bBHB2Mi hmMBM; +QMi`QQM H v2` M/`2TH +2bi?2 M22/7Q`+Qbi@T`Q?B#BiBp2`2/2bB;M Q7i2+?MQHQ;vrBHH #2 p HB/i2/QM UbBM;H2 M/M2irQ`F2/V KB+`Q;

kyky@kyklGJ, *QMiBMm H > `KQMB+b@1M? M+2/GQ/JQ/2H.Bb+Qp2`vhQ_QH2I. "m/;2i_2bTQMbB\$\$B\$DDDivaTQMbDQCE OE (Sensors)

a2`pBM; bi?2 SA 7Q`i?Bb T`QD2+ir?B+? BKbiQ/2p2HQT MQp2HH2p2`;2/i 7`QK /p M+2/;`B/b2MbQ`biQ +QMiBMmQmbHv KQMBiC+?`+i2`BbiB+b-BM+Hm/BM; i?2 2z2+i Q7 ? `KQMB+b M/Qi?2` 7 -#2? pBQ` H M/2M;BM22`BM; U;`B/QT2`iBM; +QM/BiBQMbVX h?2i?2 BKT +i Q7 i?2 2M? M+2/? `KQMB+ HQ / KQ/2Hb QM;`B/`2HBQT2`iBQM H mb2@+ b2 b+2M `BQbc b r2HH b [m MiB7v b2MbBiBpM/BM ++m` +B2b BM i?2 b2MbQ` K2 bm`2K2MibX

kyR3@ky*kjy\$P, *QKT`2?2MbBp2 SHB Mi S2`KBbbBp2 S`BQ`Biv PTiBKBx iBQM _QH2Fask Lead "m/;2i _2bTQMbB#BOH0B0ivaTQMbBDivBTO

*Q@/2p2HQT2/i?2;` Mi T`QTQb H- M/b2`p2/ bi?2h bF G2 /-7Q`i/vM KB+-`2 H@iBK2 / TiBp2 #mBH/BM; HQ / T`BQ`BiBx iBQM 7` K2~m2MiB H T ` K2i2`b-BM+Hm/BM; #mBH/BM; 7mM+iBQM M/+?` +i2+QMbi` BMib 7`QK mb2`b-iBK2 Q7 / vfv2 `-r2 i?2`- M/2[mBTK2MiM/QT2` iBQM H+QMbi` BMibX h?2 Qmi+QK2b 7`QK i?Bb T`QD2+imiBHBiB2b iQ 2{+B2MiHv b+?2/mH2 +`BiB+ H #mBH/BM; HQ /b BM /BKT`Qp2 7`2[m2M+v M/pQHi;2`2;mH iBQM b2`pB+2b 7Q` KB+`Q;`

kyRd@kykQ#mbi _2bBHB2Mi*QQ`/BM iBQM Q7 622/2`b rBi? lM+2`i BM .Bbi _QH2I. "m/;2i _2bTQMb86000000 vaTQMb100000 EERE

J M ; 2 / i ? B b T`Q D 2 + i b SA - r ? B + ? / 2 p 2 H Q T 2 / T` 2 / B + i B p 2 Q T i B I B Q M 7 ` K 2 r Q ` F i Q K M ; 2 ~ 2 t B # H 2 ; ` B / ` 2 b Q m ` + 2 b M / H 2; + v + Q M i H Q r @ p Q H i ; 2 / B b i ` B # m i B Q M b v b i 2 K i Q 2 b 2 i ? 2 ~ m + i m i B Q M b M / p h ? 2 T` Q D 2 + i / 2 K Q M b i ` i 2 / i ` M b 7 Q ` K i B p 2 M / ? B; ? H v b + H # H 2 i 2 + ? / p M + 2 / ; ` B / B M 7 ` b i ` m + i m ` 2 i Q 2 M # H 2 b Q H ` i R y y W Q 7 i ? 2 T 2 F /

kyRe@ky*R*3aARXd *QMi`QH6`K2rQ`F7Q`G`;2@a+ H2 *QKTH2tavbi2Kb _QH2O-PI. "m/;2i_2bTQMbB\$#485H0860ivaTQM.bPQVNL-LDRD

> a2`p2/ b i?2 *Q@SA Q7 i?Bb T`QD2+i r?B+? /2p2HQT2/ M HvbBb bvbi2K iB+ HHv `+?Bi2+i M//2bB;M +QMi`QH ?B2` `+?B2b 7Q` H `; Qmi+QK2b r2`2 b2i Q7 `2[mB`2K2Mib iQ BM7Q`K +QMi`QH- +QKKr `+?Bi2+im`2 /2}MBiBQM M/ H;Q`Bi?K b2H2+iBQM 7Q` ;Bp2M bvb

.Bbb2`i iBQMb M/h?2b2b

- S?. a2 KH2bb AMi2; `iBQM Q7 _2M2r #H2:2M2` iBQM M/SHm; @BM 1H i`B+ H: A&Asx S`Q72bbQ` A M X > BbF2Mb-IMBp2`bBiv Q7 JB+?B; N
- " +?2HQ`.bzp2HQTK2MiQ7 +QMi`QHH2` +?BTiQ pQB/#B7m`+ iBQM BM pQH p2`i2A`d\sor S`Q72bbQ` aQmKBi`Q " M2`D22- AAh E? ` ;Tm`

S i 2 M i

CXGBM-EXE HbBax.EXnonM#mBi22HH2J2KQ`BHAMbiBimi2AM+-ó1ti` +iBM;K `2bTQMb2TQi2MiBHBM+*UQnMeil`SQ*aHesH*PateHt210*HSQ2,7066X6kykyX

"QQF *? Ti2`

AX *? F` #Q`iv-aX LaNK/EMmQMQ\nMB/EX E HbB-ó. i @/`Bp2M S`2/B+iBp2 6H2tB#Q7.Bbi`B#mi2/1M2`;v _A2-tbifQianhIn#eAllbgenoceBTNsthniques for a Scalable Energy Transition: Advanced Methods, Digital Technologies, Decision Support Tools, and Applications-aT`BM;2`-kykyX

h2+?MB+H2TQib

- (_j)EX SX a+?M2B/2`- >X L ; ` D M- X S` ii- JX CX _2MQ- "X PHbtExb- 6X hmz Em M/-mq X .m- > X > BD xB- _X C BM- 6X 6HQ`2b@1bTBMQ- CX > K#`B+F M/ S`Q+2bb 7Q` L2irQ`F2/ JB+`Q;`B/b-ô SLLG h2+?MB+ H _2TQ`i- SLLG@jyy
- (_k)uX GBm- SX oXalXBEMm, Q4 pernal- óPT2M@aQm`+2 >B;?@6B/2HBiv ;;`2; i2 *QK JQ/2Hb Q7 1K2`;BM; GQ / "2? pBQ`b 7Q` G `;2@a H2 M HvbBb-ô SLLG kN8Nk-kykyX
- (_R)X "? ii +? `v a X L X : Q m `B b 2 i i B C X > M ba2 M E rq M + mQ -7 & A M E + X M i B b B @ " b 2 / *Q M i `Q H M / *Q Q `/B M i B Q M Q 7 . B b i `B # m i 2 / 1 M 2 `; v _ 2 b Q m ` + 2 b ô S L L G k 3 d k 9 k y R N X

a2H2+i2/ CQm`M H Sm#HB+ iBQMb

(a22@a+?QMQ`` +QKTH2i2 HBbi)

- (CR)XL M/ MQXQEBn-M/CnX GB M-IX o B/v .X o` #B2 M/EXE HbB-óaT `b2*QMIM+2`i BM _2bTQMbBp2 GQ /b rBi? aiQ+? b*IBBEE aTirar#sabhirb*Bsi*van:Sinnart* Mi22bô-*Grid*-Cm H kykRX
 - (CNa)X Em M/mX "? ii +? `v oX *? M/ M- LX _ /? F`Bb?M M- oX /2iQH M/aiQ+? biB+ Jm HiB@ *`Bi2`B .2+BbBQM J FBM; H;Q`Bi?K 7Q`.vM KB+ (AMi2` +iBp2 1 {+B2MiASM/IB HettBrM into Dignamic Systems and Control- pQHX R- MQX j-kykRX

(C3)

- (*kka)XSX L M/ MQQ`B-aX SaXH-EanXM ABBXM?; -`r H- M/aX *?Qm/?m`v-ó. i @/`E .Bbi`B#mi2/G2 `MBM; Q7 JmHiB@;2Miavbi2Kb, EQQTK M PT2`iQ` T M/.2+BbBQM *QM72U2+N+-22T-i2k/y/kRX
- (*kRJ)X C BaN1-Em M-/mX "? ii +? `v aX > m M; oX *? M/ M-LX _ /? F`Bb?M M-o .X o` #B2- óP++mT M+v@.`Bp2M aiQ+? biB+ .2+BbBQM 6` K2rQ`F 7Q` _ GQ /bThê American Control Conference TTX 9RdR@9Rdd-kykRX
- (*ky) a X L M/ M Q XQ `EBm M/anX S H-EX; `r H M/a X *? Q m/? m`v-óJQ/2 H @; M Q b i E `2 H @ i B K 2 i i + F B / 2 M i B } + i B Q M B M T Q r 2`; I EBE In Sub a B t VA r i a E Our Q D T K y M y K X Q / 2 b - ô
- (*RN)X _ X E M / F i H o X *a?X ME/mNM-/ An X *? F` #Q`iv- E X *QQF M / X . b; m T i r `/b h`m b i @ m; K 2 M i 2 / o B b m H M H v i B + b 7 Q` . i @EEEBVjistuMizattMu2`; v JQ / 2 H Confereence (VIS 2020) k y k y X
- (*R3a)X Em M/Mn/EX E HbB-óh` MbB2Mi a 72iv 6BHi2`.2bB; MThQAmerB/@6Q`KBI ican Control Conference-TTX RkNN@Rjy9-.2Mp2`-la-kykyX
- (*RdA)X *? F` #Q`iv-aX LaNX/BMmQMQ/MMB/-EX E HbB-óaiQ+? biB+oB`im H " ii2`v Q7 IM+2`i BM 1H2+i`B+ H GQ /b IbBM; o T/Be An BeQidMn Hontmol QOnMerenQe/-2`ô-TTX Rjy8@RjRy-.2Mp2`-la-kykyX
- (*Rea)X E m M / m X * ? m u X G B m u X h M; Z X > m M; . X C K 2 b u X w ? M; S X 1 i B ó L Q M H B M 2 ` _ 2; ` 2 b b B Q M J 2 i ? Q / 7 Q ` * Q K T Q b B i 2 S ` Q i 2 + i B Q M J Q / 2 H B M I E E E P E S Innovative Smart Grid Technologies Conference q b ? B M; i Q M . * k y k y X
- (*R8:)X "B M+?BM-6X S b [amX HE2mi MB/ ónM2 b B H B 2 M + 2 Q 7 h` {+ L 2 i r Q `F b r B i ? S `i E i`Q H H 2 / _ 2 H @ h B KLEZE <u>Q</u>umeinBealM <u>Coôtrol Conference</u> T T X k e d y @ k e d 8 k y R N X
- (*R91) X u 2 m $\frac{1}{2}$ M/Mn/LX > Q/b-óG2 `MBM; /22 T M2 m` H M2 i r Q`F `2 T`2 b 2 M i Q T2` i Q`b Q 7 M Q M H B M 2 ` / $\frac{1}{2}$ Mbher $\frac{1}{2}$ Me $\frac{1}{2}$ Hcebreeô T T X 9 3 j k @ 9 3 j N k y R N X
- (*Rjax EmM/qnx.m-ax SX L M/ MQQ`B-6X hmzM2` M/EX a+?M2B/2`-óA/2Mi 7Q`_Q#mbi ai #BHBiv BM LQMHBM2` L2irQ`F*bEEE Alfaerican;Cfantrol*TTHB+ iBC Conference-TTX jRRR@jRRe-kyRNX
- (*Rka)XEm M-/amX:2M;-aXSXLM/MQQ`B-AXX>BbF2Mb M/EXE HbB-ó.Bbi`l 7Q`a 72PT2`iBQMQ7AMp2`i2*Tl@Ambn2chn*J@*Ambn2chn*J@*ComitrQ*Q*Ç`on*Bfe/rbncê-TTXRy9k@Ry9d-S?BH/2HT?B-la-kyRNX
- (*RRa)X EmM/mX *? M/M- M/EX E HbB-óa+ H #H2 *QKTmi iBQM Q7 k.@JBM i``v LQM@*QMp2t.QK BMb, JQ/2HBM; 6H2tB#58*H#BaiwaiBJMteftnMtt2chaplv _2bQm`+ Conference on System Sciences- J mB-la-kyRNX
- (*RyAX*? F` #Q`iv-aX SX L MX MonQ NQ/offbo BM/m H " ii2`v S ` K2i2` A/2 MiB}+ iBQ h` Mb72` G2`MBM; " b2/ai +F21//thm/E/OE2/MiceroQutiO2nal-6 onference on Machine Learning and Applications-TTX RkeN@Rkd9-P`H M/Q-la-kyR3X
- (*N) a X S X L M / Na Q QE `mBM+/n X o` #B2-E X E H b B M / C X G B M ó S`BQ`B i B x 2 / h?` 7 Q`.B b i`B # m i 2 / 6`2 [m 2 M/E-E/E _C2>Invarianted br2 G on trol Technology and Applications TTX k j d @ k 9 9 *QT2M?; 2 M .2 M K `F k y R 3 X
- (*3) X J `ma7X E m M-/1mX u 2 m M; M / J X M;?2H- ó.2+QKTQbBiBQMQ7LQMHBM2`
 oB *QKT`BbQM aEvutopio2nK66onôprol Conference-TTXRNy@RNe-GBK bbQH-*vT`mb

(*9)aX EmM/m