SCMV Errata

xi url should be http://www.cs.cornell.edu/cv
5 in the first script there is a stray "\"
7 line 8: \( x_i = (i-1)/20, i = 1, \ldots, 21 \)
8 in the second to last script should be \( y(k) = \sin(2\pi p_1 x(k)) \), i.e., add the 2\( p_1 \)
33 before RunUpDown insert "a" between "write" and "second"
38 line 1: "... assigns "1" to b ..."
42 in the script ExpTaylor should have for \( k=1:nTerms \)
43 in the last formula, should have \( x^2 \) instead of \( x_2 \)
46 after the proof, should say MATLAB sets \( \text{eps} = 2^{1-t} \).
47 in P14.5, the first sentence should end with "\( \tau \)" rather than "\( \omega \)"
50 in the second to last line: "of" not "off"
52 in line 8 there is a case error: C1.long.d, not C1.Long.d
53 3rd line in spec for convert, should have .. is the value of f.
56 in spec for pretty, there is a stray "is a"
58 PadeCoeff comments: the square brackets should be parens, i.e., R.num(1).
62 Color mnemonics for white, magenta, and black should be \( w, m, \) and \( b \) resp.
68 at the bottom should have \( c_{i-j+1} \) instead of \( c_{i-j} \)
70 in the first line of the last script remove \( V = \text{zeros}(n,n) \)
72 in the second line of the script, should have InterpV(x,y) instead of InverpV(x,y)
73 line 2 case error, \( \text{pVal requires...} \)
78 3/4 down page: ...divide equations by \((x_2 - x_1), (x_3 - x_1), \) and \((x_4 - x_1)\), respectively
79 last line should be \( (y(k+1:n) - y(k))./(x(k+1:n) - x(k)) \)
80 in figure 2.7 y-coordinate of new points should be \((1 - \mu)c + \mu d, (1 - \mu)b + \mu d \)
82 P7.1.2 stray \( \backslash \) symbols and \( \backslash \text{car} \) should be "delta and hmin and " and x and y are column n-vectors
83 in the script, better to write \( A = \text{zeros}(1,4) \) \( \ldots \)
84 first line: should have \( A = \{1 \text{ zeros}(1,4) \} \ldots \)
85 line 4 of this script, better to write \( \text{C(:,j)} = A*B(:,j) \)
86 first script comment should read \( F(x,j) = \exp((-x(j)^2/2 + 2y(1)^2)/4) \)
87 line 5 - so we can vectorize as follows (assuming that x is a column vector):
88 in the last set of displayed equations, since \( n = 4 \) the \( t_3 y_4 + y_3 = b_2 \) line doesn’t belong.
89 The 2-by-2 matrix in the last displayed equation should have its rows reversed.
90 In the script at t bottom, the x’s should be j’s within the loop body.
91 In the script at t bottom, the x’s should be j’s within the loop body.
92 At the bottom, should be \( [L,U,P] = \text{LU}(A) \).
94 P7.1.2 stray \( \backslash \) symbols and \( \backslash \text{car} \) is \( ^\wedge \) n
95 The \((n, n-1)\) and \((n-1, n)\) entries in the matrix in Theorem 7 are \( e_n \) not \( e_{n-1} \)
96 the function MakeScalar is missing from the list.
97 in the 4-line script at the bottom, delete the square bracket in the \( \text{fpval} = \text{line} \)
98 in the expression for \text{tmin} at the bottom, there is a stray comma.
100 in P8.2.7, in the third displayed equation, should just be \[ \begin{bmatrix} x(t) \\ y(t) \end{bmatrix} \].
101 in the second component of the \( \nabla \text{sep} \) equation, should have \( \partial t_2, \xi_2(t_2), \) and \( \gamma_2(t_2), \) not \( \partial t_1, \xi_1(t_2), \) and \( \gamma_1(t_2) \)
102 \( F(z) = z h_n f(t_{n+1}, z) g_n \)
103 two-thirds of the way down, should be \( 2b_2 = 1 \) not \( 2b_2 = 1 \). Just below that, \( a = b = 1/2 \) and \( a = \beta = 1 \)
104 in the script, \( k==2 \) case, should be \( k2 = \text{hefeval(name,t+i,y<space>ck1) \) \)
105 line 8 stray "tt" and just below that, replace "xx" with "n - 1".
106 in second line from bottom, should be \( \text{...plot(t,x(:,2)),...} \)
107 in first displayed equation, should have \( y_{n+1}^{(P)} = \frac{1}{T} (3f_n - f_{n-1}) \).
108 cell 59, not cell 160.