LIST OF SYMBOLS AND ABBREVIATIONS

SYMBOLS

\( r_i \)  
Autocorrelation coefficients

\( \lambda_j \)  
Lagrange multipliers

\( g_j \)  
Lagrange constraints

\( L(a'b', \lambda_j) \)  
Lagrange function

\( \cap \)  
Intersection

\( U^2 \)  
Unit Bicircle

ABBREVIATIONS

FIR  
Finite impulse response

IIR  
Infinite Impulse Response

PLSI  
Planar Least Square Inverse

DHT  
Discrete Hilbert Transform

VLSI  
Very Large Scale Integration

NSHP  
Non Symmetric Half Plane Filter

LSS  
Local State Space Model

DSP  
Digital Signal Processing

PRAM  
Programmable Random Access Memory

CROM  
Coefficient Read Only Memory

GSR  
Global Speed-up Architecture

RISC  
Reduced Instruction Set Computer

FPGA  
Field Programmable Gate Arrays
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDL</td>
<td>Hardware Descriptive Language</td>
</tr>
<tr>
<td>VERILOG</td>
<td>Verification of Logic Function</td>
</tr>
<tr>
<td>BIBO</td>
<td>Bounded Input Bounded Output</td>
</tr>
<tr>
<td>ALU</td>
<td>Arithmetic Logic Unit</td>
</tr>
<tr>
<td>EPROM</td>
<td>Erasable Programmable Read Only Memory</td>
</tr>
</tbody>
</table>