procedure COMMUNICATION_VOID_RESTORATION
  if node is void **then**
    Change status
    SN_{vn}: Void node, γ: set of neighbour of SN_{vn}
    Send (void_node_announcement) to γ
    $\{\gamma$ *set of neighbour of* $SN_{vn}.\}$
    $\{C_D$ *candidates to the node* $SN_{vn}.\}$
    if $|\gamma| > 0$ **then**
      for $SN_u \in \gamma$ **do**
        if *dist*$(SN_{vn},SN_u) \leq r_c$ **then**
          $d_u \leftarrow C_D(SN_u,s^*_u)$
          $\mathrm{X} = x_{vn} - x_{s^*_{vn}}$
          $\mathrm{Y} = y_{vn} - y_{s^*_{vn}}$
          $\mathrm{Z} = z^*_{vn} - z_{s^*_{vn}}$
          $\mathrm{X}^2 + Y^2 + Z^2 \geq d_u^2$
          $C_D \leftarrow C_D \cup \{z^*_{vn}\}$
        else
          $\mathrm{d} \leftarrow \sqrt{(x_{vn} - x_u)^2 + (y_{vn} - y_u)^2}$
          if $d \leq r_c$ **then**
            $\mathrm{A} = x_{vn} - x_u$
            $\mathrm{B} = y_{vn} - y_u$
            $\mathrm{C} = z^*_{vn} - z_u$
            $\mathrm{A}^2 + B^2 + C^2 \leq r_c^2$
            $C_D \leftarrow C_D \cup \{z^*_{vn}\}$
          end if
        end if
      end for
      $\mathrm{z} = arg\ min_{\forall z_i \in D\{|z_{vn} - z_i|\}}$
      SN_{vn} *moves to new depth z*
      Communication_Void_Restoration();
    end if
  end if
end procedure